Network Camera Web3.0 Operation Manual

Version 1.1.0 E

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Important

The following functions are for reference only. Some series products may not support all the functions listed below.

1 Network Connection

These series network camera products support the Web access and management via PC.

Web includes several modules: monitor channel preview, PTZ control, system configuration, alarm and etc.

Please follow the steps listed below for network connection.

- Make sure the network camera has connected to the network properly.
- Network camera IP address and PC IP address shall be in the same network segment. If there is router, please set the corresponding gateway and subnet mask.
- Use order ping ***.***.***.***(* network camera address) to check connection is OK or not.

2 Main Interface Introduction

2.1 Log in

Open IE and input network camera address in the address bar.
For example, if your camera IP is 192.168.1.108, then please input http:// 192.168.1.108 in IE address bar. See Figure 2-1.

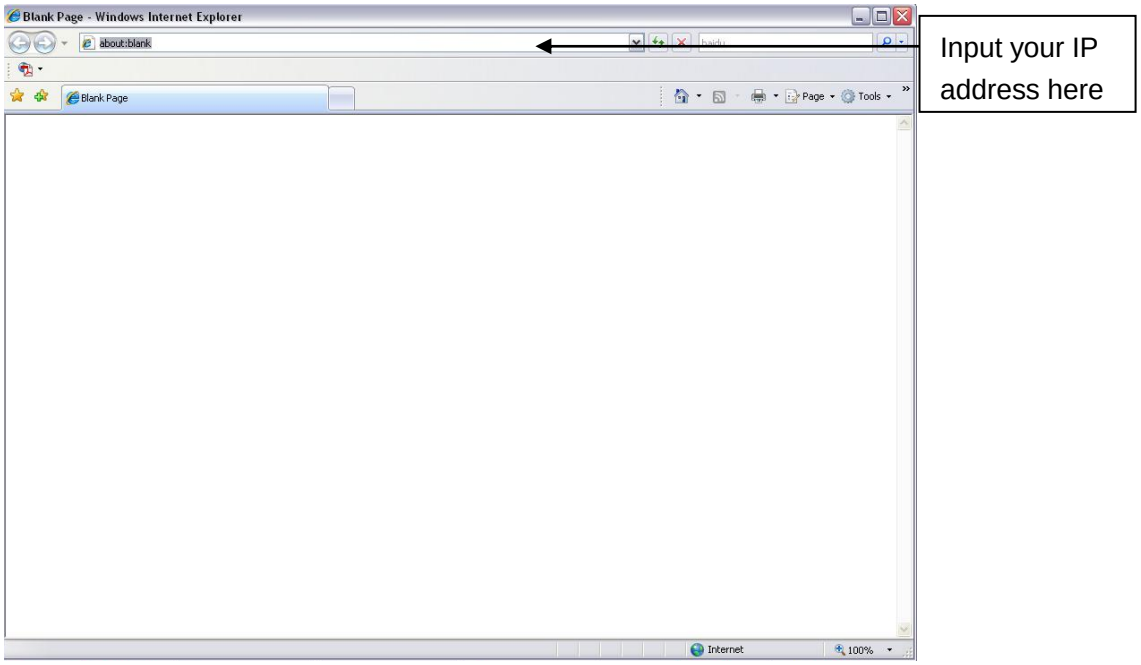


Figure 2-1

The login interface is shown as below. See Figure 2-2.
Please input your user name and password.
Default factory name is **admin** and password is **admin**.
Note: For security reasons, please modify your password after you first login.

Figure 2-2

If it is your first time to login in, you may see the interface shown as in Figure 2-3.

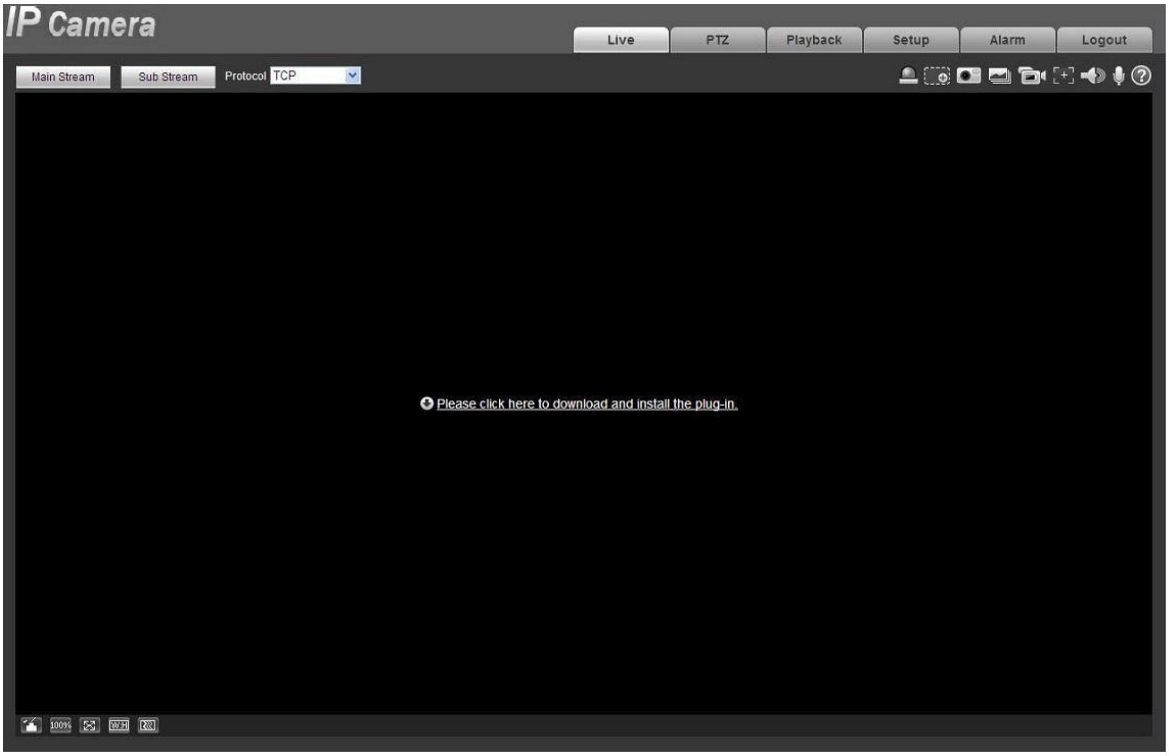


Figure 2-3

Click on “Please click here to download and install the plug-in”. The system pops up warning information to ask you whether run or save this plug-in. See Figure 2-4.

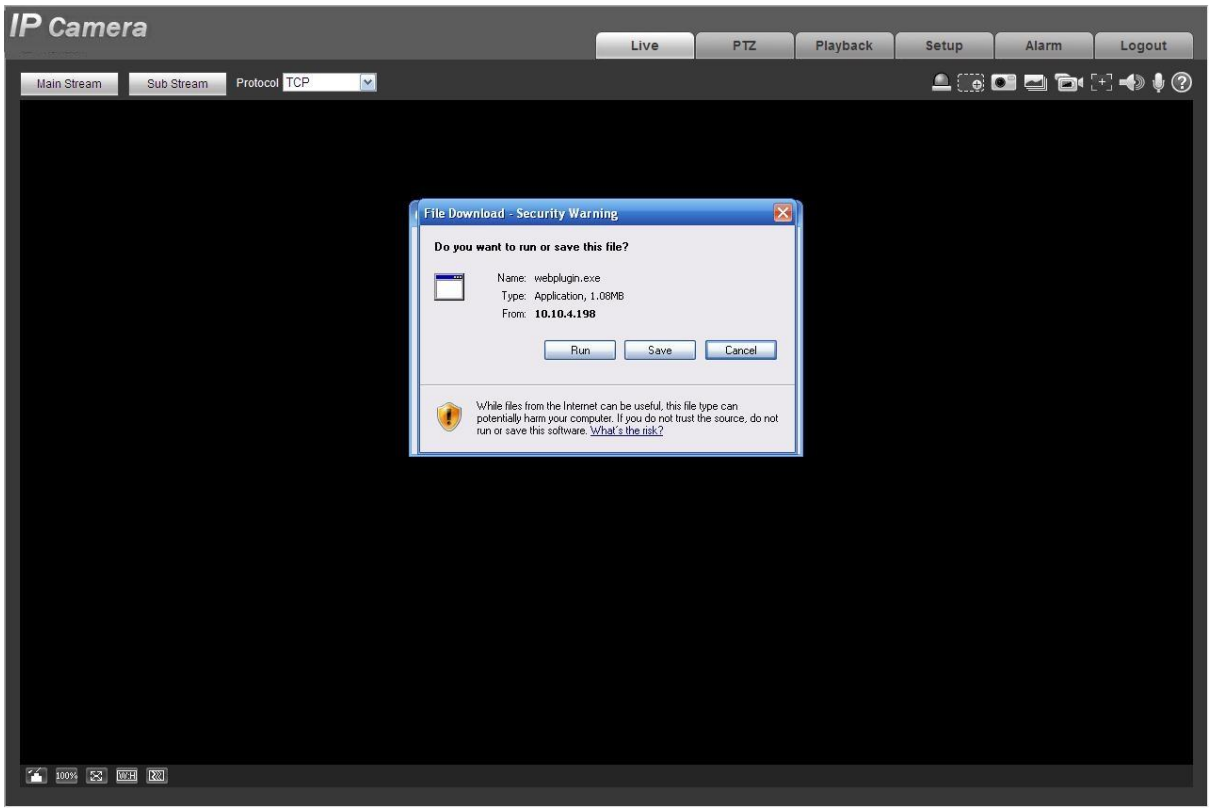


Figure 2-4

You must either run or save the file to local and install it. Follow the following steps. Click on run, you will see Figure 2-5 and Figure 2-6.

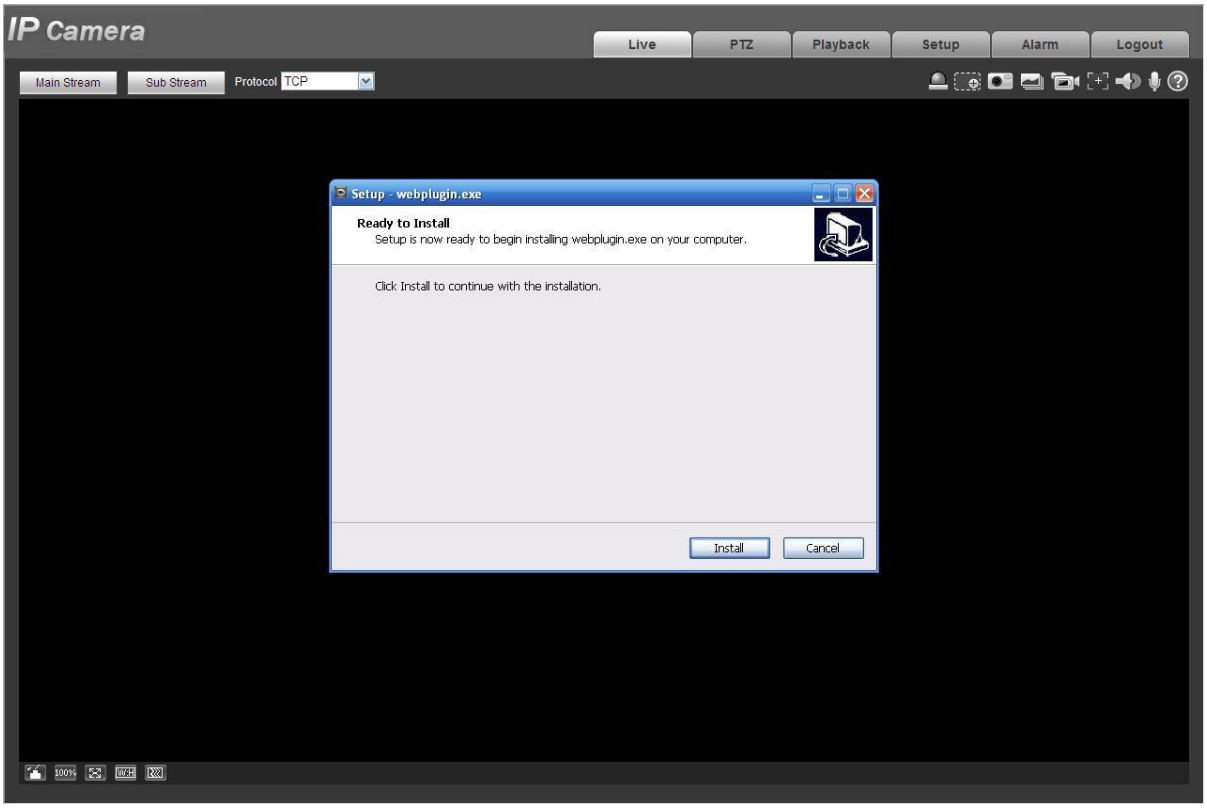

IP Camera
Live
PTZ
Playback
Setup
Alarm
Logout
Main Stream
Sub Stream
Protocol
TCP
Setup - webplugin.exe
Ready to Install
Setup is now ready to begin installing webplugin.exe on your computer.
Click Install to continue with the installation.
Install
Cancel

Figure 2-5

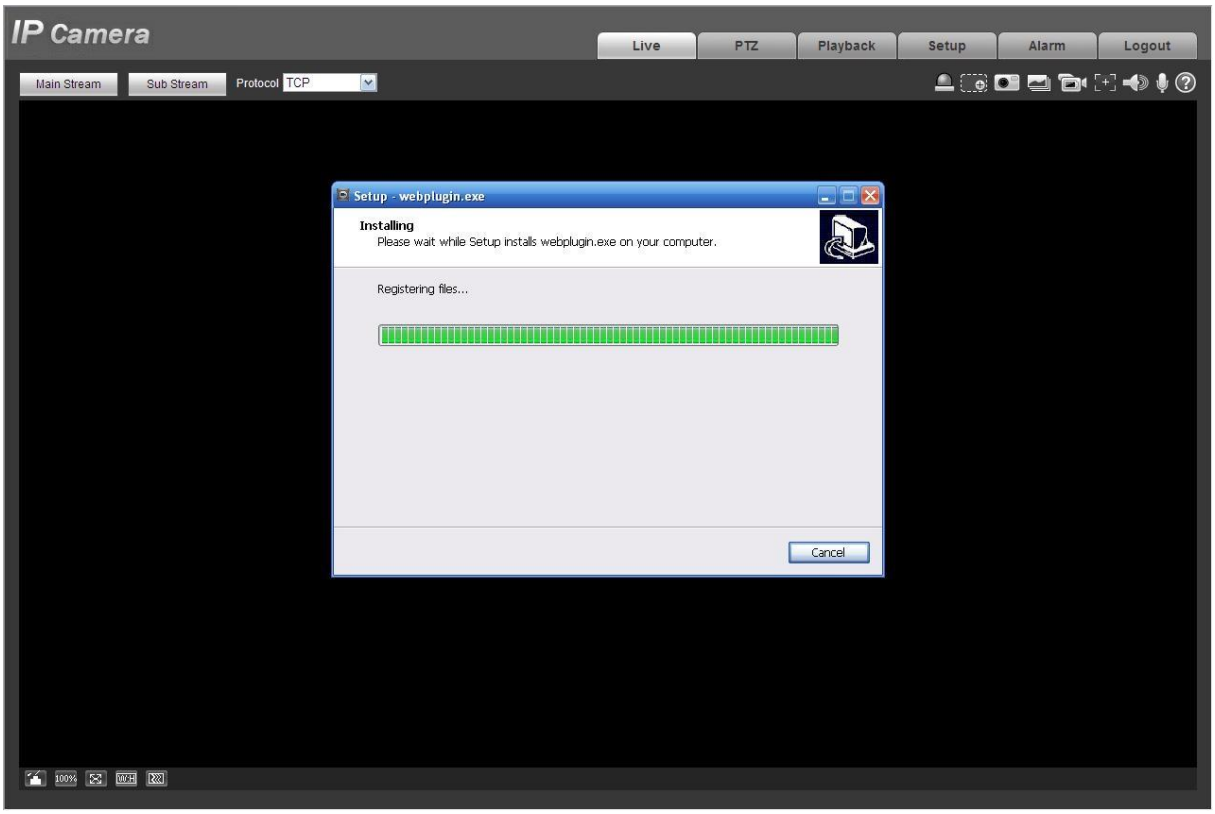


Figure 2-6

When plug-in installation completes, the installation page closes automatically. The web-end will refresh automatically, and then you can view video captured by the camera.

2.2 Live Interface

After you logged in, you can see the live monitor window. See Figure 2-7

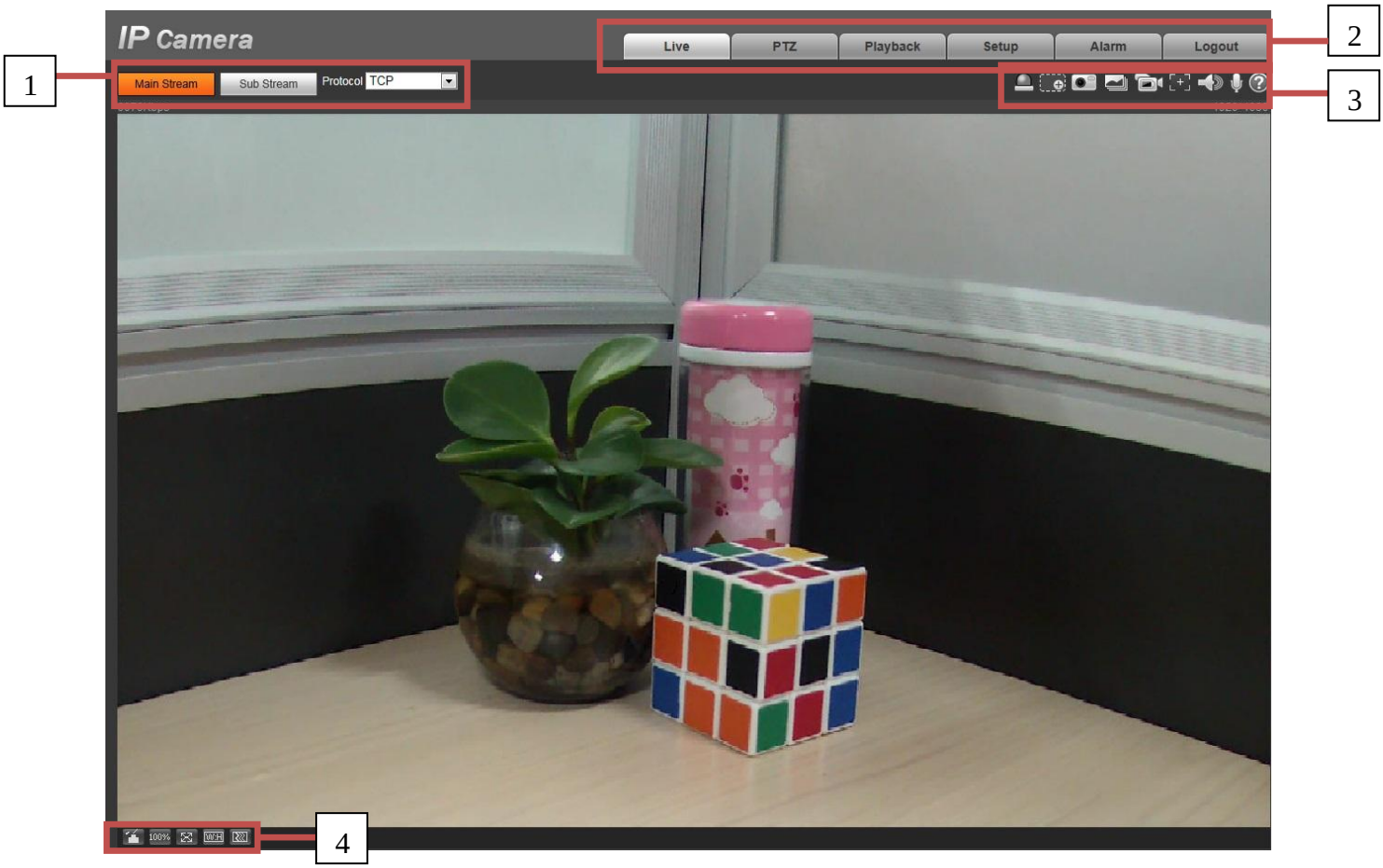


Figure 2-7

There are four sections:

- Section 1: Encode setup bar
- Section 2: System menu
- Section 3: Window function option bar
- Section 4: Window adjust bar

2.3 Encode Setup

The encode setup interface is shown as in Figure 2-8.

Figure 2-8

Please refer to the following sheet for detailed information.

Parameter	Function
Main stream	In normal network width environment, main stream can record audio/video file and realize network monitor. You can set the main stream resolution if your device supports.
Sub (Extra) stream	If network width is not sufficient, you can use sub stream to realize network monitor.
Protocol	You can select stream media protocol from the dropdown list. There are three options: TCP/UDP/Multicast

2.4 System Menu

System menu is shown as in Figure 2-9.

Please refer to chapter 2.2 Live, chapter 3 PTZ, chapter 4 Playback, chapter 5 Setup, chapter 6 Alarm, chapter 7 Log out for detailed information.

Figure 2-9

2.5 Video Window Function Option

The interface is shown as below. See Figure 2-10

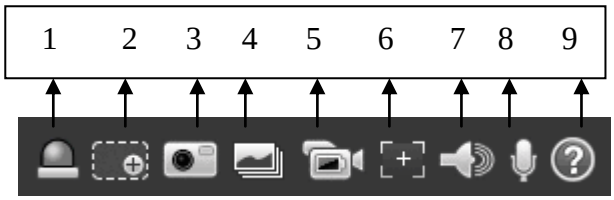


Figure 2-10

Please refer to the following sheet for detailed information.

SN	Parameter	Function
1	Alarm on/off	To control alarm output as: ● Red: means alarm output. ● Grey: means alarm ends. Click on this button to control alarm output or turn it off.
2	Digital zoom	● When the video is in the original status, click it you can select any zone to zoom in. In the non-original status, you can drag the zoom-in zone in specified range. Right click mouse to restore previous status. ● Click it; you can use the middle button of the mouse to zoom in/out the video size.

3	Snapshot	You can snapshoot important video by clicking on this button. All images are memorized in system folder: \ picture download (default). You can go to Setup->Camera->Video->Path to modify the local record save path.
4	Triple snap	Click it, system can snap at 1f/s. All images are memorized in system storage folder.
5	Record	For manual record. All records are memorized in Setup->Camera->Video->Path.
6	Easy focus	Click it, you can see there are two parameters on the preview video：AF Peak and AF Max. AF Peak: It is to display the video definition during the focus process. AF Max: It is the most suitable value for the video definition. The close the AF Peak and AF Max is, the better the focus effect is.
7	Audio output	Turn on or off audio when you are monitoring.
8	Bidirectional talk	Click it to begin audio talk. You can go to Setup->Camera->Audio to set bidirectional talk mode.
9	Help	Click it to open help file.

2.6 Video Window Setup

The interface is shown as in Figure 2-11.

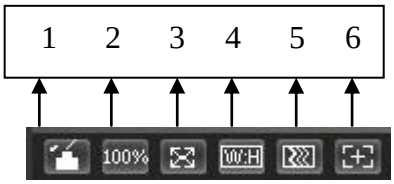


Figure 2-11

2.6.1 Hide Image Control

Click this button to display/hide image control interface.

2.6.2 Original size

Click this button to go to original size. It is to display the actual size of the video stream. It depends on the resolution of the bit stream.

2.6.3 Full screen

Click it to go to full-screen mode. Double click the mouse or click the Esc button to exit the full screen.

2.6.4 Width and height ratio

Click it to restore original ratio or suitable window.

2.6.5 Fluency Adjustment

There are three levels of fluency for you to select. The default is real-time with minimum delay. You may select fluent mode in case connection is slow.

2.6.6 Zoom and Focus

Click it to open zoom and focus interface. See Figure 2-12.

Note: It is for motorized zoom lens device only.

Figure 2-12

Please refer to the following sheet for detailed information.

Parameter	Function
Zoom	Adjust lens focal length. May adjust via single clicking on or long pressing + - . Step length is to adjust length of single step. Note: The device will focus automatically after adjusting the zoom.
Focus	Adjust lens definition. May adjust via single clicking on or long pressing + - . Step length is to adjust length of single step.
Auto focus	Automatically adjust image definition. Click to adjust. Note: During auto focus, you cannot perform other lens operation.
Restore	Restore lens to zero to clear accumulated difference. Note: Please restore default settings when needed.
Refresh	Sync lens and slide bar location after hardware zooming.

2.6.7 Image control

Click it to open picture setup interface. See Figure 2-13. This interface is on the top right pane.

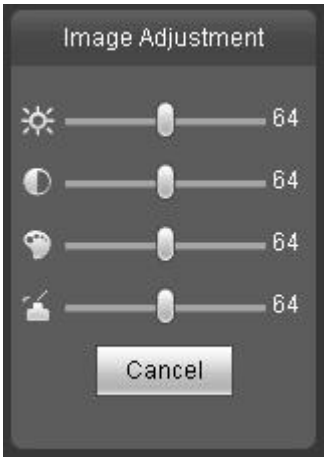


Figure 2-13

Please refer to the following sheet for detailed information.

Parameter		Function	
Video setup		It is to adjust monitor video brightness.	Note: ● All the operations here apply to WEB end only. ● Please go to Setup->Camera->Conditions to adjust corresponding items.
		It is to adjust monitor video contrastness.	
		It is to adjust monitor video hue.	
		It is to adjust monitor video saturation.	
	Reset	Restore brightness, contrastness saturation and hue to system default setup.	

3 PTZ Control

PTZ interface of WEB client supports direction, step length, zoom, focus, iris, preset, tour, pan, scan, pattern, aux open, and aux close functions.

Note:

Before PTZ operation, please make sure you have properly set PTZ protocol. Please go to Figure 3-1 PTZ setting for more details.

Currently only IPC-HFxxxx series product support PTZ function.

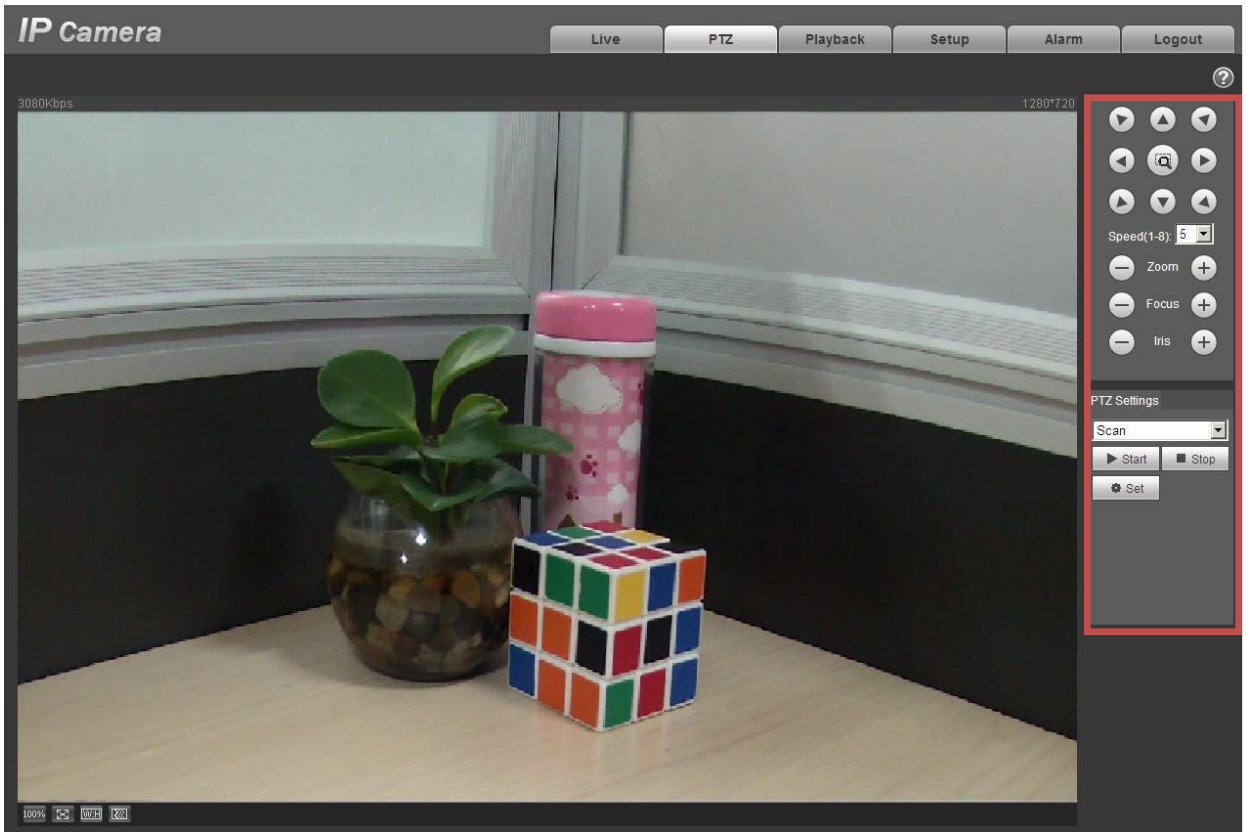


Figure 3-1

Parameter	Function
PTZ rotation	PTZ supports eight directions: left/right/up/down/upper left/upper right/bottom left/bottom right.

Step length	Used to operate speed, longer step, and faster speed. Step length is effective to PTZ direction control, zoom, focus and iris adjustment.
Position	Use mouse to draw a frame in the monitor screen, PTZ will rotate and zoom and position to this scene quickly.

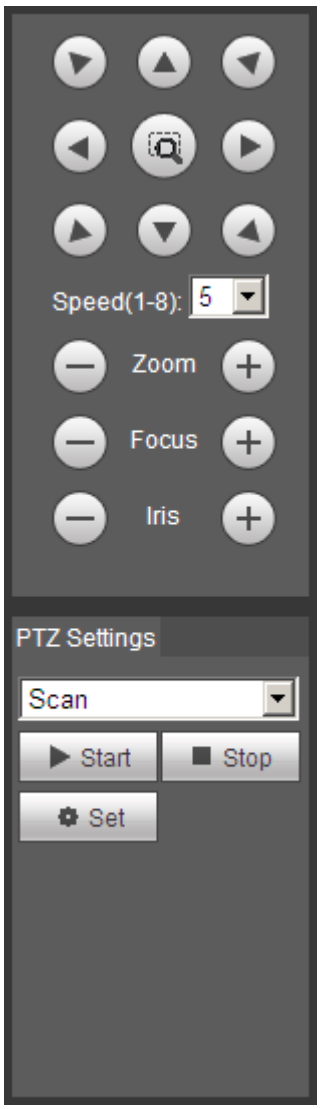


Figure 3-2

PTZ settings can choose to set scan, preset, tour, pattern, assistant and light wiper, and check PTZ coordinate as well, see figure 3-3

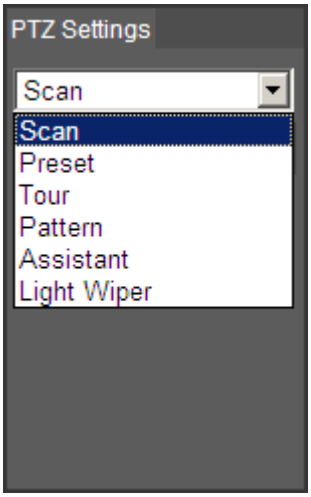


Figure 3-3

3.1 Scan

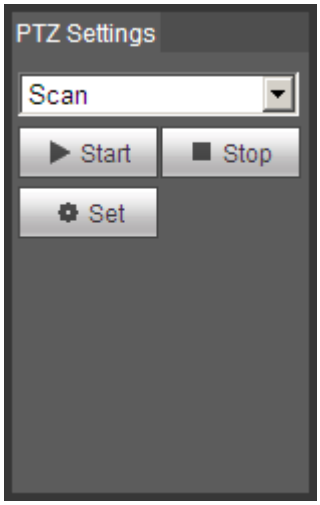


Figure 3-4

Steps to set scan are as follows:

Step 1 Single click “set” button, display

icon.

Step 2 Move the direction button to the left margin you want, single click “set left” to ensure the left margin location.

Step 3 Move the direction button to the right margin you want, single click “set right” to ensure the right margin location.

Step 4 Finish setting path for scan.

3.2 Preset

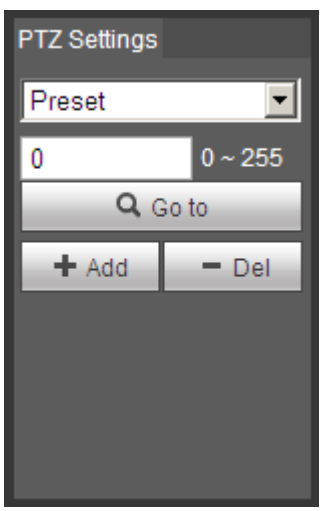


Figure 3-5

Steps to set preset are as follows:

Step 1 Enter preset value in the preset box.

Step 2 Single click “go to”, camera will move to the corresponding location of the preset.

Step 3 Use direction button to rotate camera to needed location, enter preset value in the preset box.

Step 4 Single click “Add” to set next preset, the preset range is related to the specific PTZ protocol.

3.3 Tour

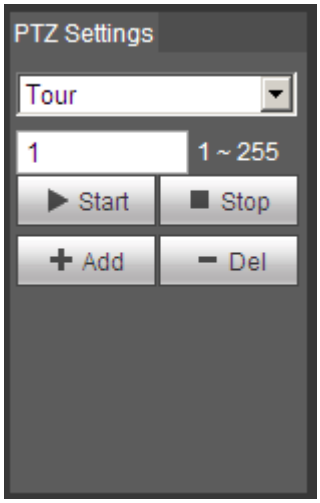


Figure 3-6

The steps to set tour are as follows:

Step 1 Enter the tour value in the tour box.
Step 2 Single click “Add”, set range is related to specific PTZ protocol.
Step 3 Enter preset value in the preset box.
Step 4 Single click “add preset”, which means adding a preset in the point between point tour. If single click “delete preset”, which means deleting the preset in the point between point tour.
Note:
Add more presets with more operations, and also can delete several presets in the tour.

3.4 Pattern

Figure 3-7

The steps to set pattern are as follows:

Step 1 Enter the pattern number in the pattern box, single click “Add” button.
Step 2 Single “Start” to operate zoom, focus, iris and direction
Step 3 Single click “Stop” to finish a pattern path setting.

3.5 Assistant

Figure 3-8

The steps to set assistant are as follows:

Step 1 Enter aux value in the assistant box.
Step 2 Single click “Aux On” to open corresponding aux functions.
Step 2 Single click “Aux Off” to close corresponding aux functions.

3.6 Light Wiper

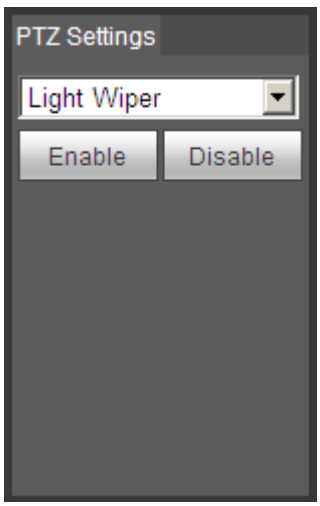


Figure 3-9

The method to set light wiper is as follows:

- Single click “Enable” to open light wiper function
- Single click “disable” to close light wiper function.

4 Playback

Web client playback support video playback and image playback two modes.

Note:

Please set storage management before playback.

4.1 Video Playback

Video playback interface of Web client includes six following functions:

Parameter	Function
1	Function of play
2	Playback file
3	Play time cut
4	Record type
5	Progress bar
6	Aux function

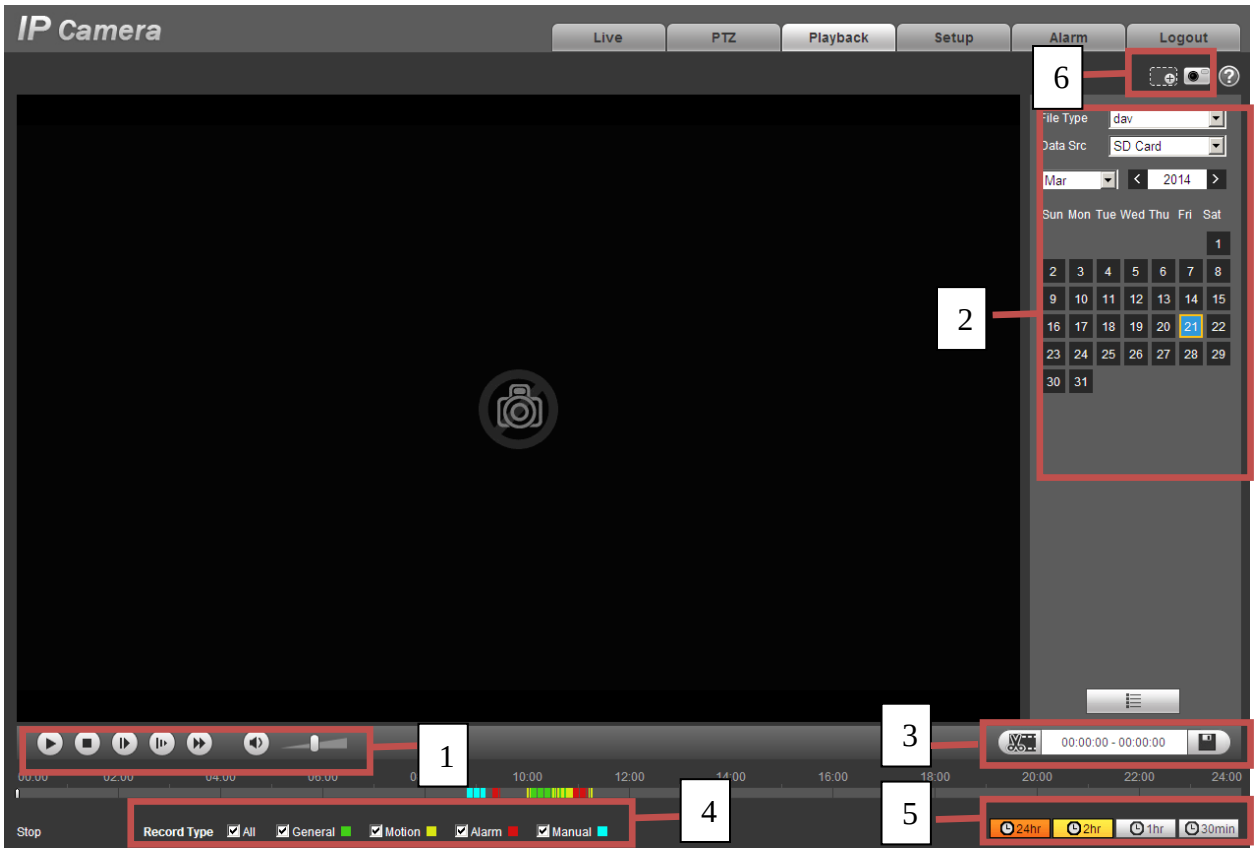


Figure 4- 1

4.1.1 Function of Play

The function of play is shown as in Figure 4- 2.

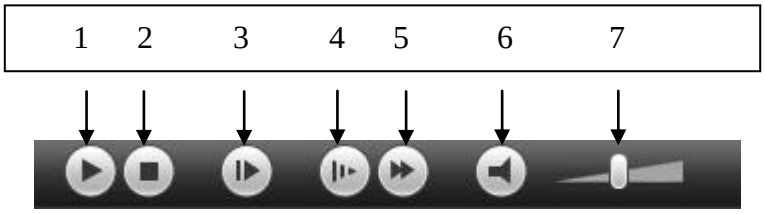


Figure 4- 2

1. Play: Play or pause video.
2. Stop: Stop video.
3. Play by frame: Skip to next frame.
4. Slow play: Slow down the video.

5. Quick play: Speed up the video.
6. Silent: Switch off/on sound.
7. Volume: Adjust volume of the video.

Note: You must pause video before skipping to next frame.

4.1.2 Date

The date with blue background in the calendar means current date has record or snapshot file.

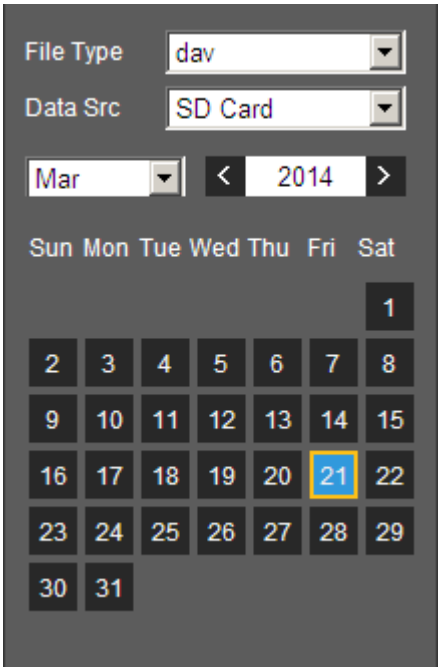


Figure 4- 3

Parameter	Function
File type	● Select“dav”，means video playback. ● Select“jpg”，means image playback.
Data sources	Default SD card

Step 1 Single click the date with blue background, video file progress bare with color is shown on the timeline. Green means general video; yellow means motion video; red means alarm video; blue means manual video.

Step 2 Single click on a location of a certain time in the video file progress bar area, the playback interface will play the video from that time.

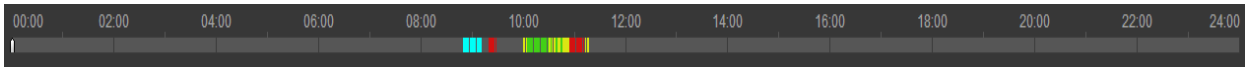


Figure 4- 4

Step 3 Single click file list option , the video file of the selected date will be displayed in the list.

Step 4 Double click the file in the list, and it will be playbacked, meanwhile it also displays the file size, begin time and end time.

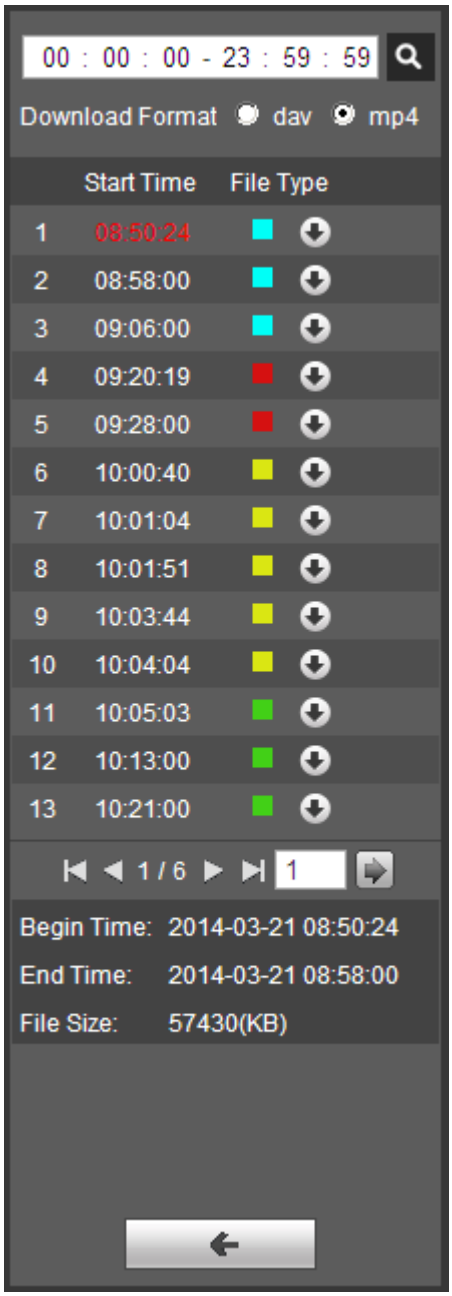


Figure 4- 5

Parameter	Function
Search	Search all the video file between the begin time and the end time that you input.

Parameter	Function
Video Download Format	Two formats to select：dav、mp4。
Download	When video type is “dav”, single click download button, and download the file to local. When video type is “mp4”, single click download button, and download the file to 4.1.2.4 storage path. Note: The system doesn’t support the mp4 mode video which is download and play backed at the same time.
Back	Single click return button, it will go back to calendar page, and may reselect time to operate.

4.1.3 Playback clip

Note:

When using playback clip function, the video file being play backed will pause automatically, which means playback clip and playback can’t be operated at the same time.

Step 1 Single click the begin time of playback clip you want to set on the timeline, make sure the time is within the range of video file progress bar area.

Step 2 Move the mouse above the clip icon , “select begin time” will show up on the lower right corner. Single click clip icon , then finish setting start time of playback clip.

Step 3 Single click the end time of playback clip you want to set on the timeline, make sure the time is within the range of video file progress bar area.

Step 4 Move the mouse above the clip icon , “select end time” will show up on the lower right corner. Single click clip icon , then finish setting end time of playback clip.

Step 5 Single click save button, then the file will be edited to storage path.

Figure 4- 6

4.1.4 Record type

After checking record file type, only the selected record file will be displayed in the progress bar and the file list.

Figure 4- 7

4.1.5 Progress bar time formats

Figure 4- 8

Parameter	Function
24hr 24 hr button	Single click this button, the progress bar will be displayed by 24hr mode.
2hr 2hr button	Single click this button，the progress bar will display latter two hours of the current video.
1hr 1hr button	Single click this button，the progress bar will display latter one hour of the current video.
30min 30min button	Single click this button，the progress bar will display latter 30 minutes of the current video.

4.1.6 Aux Functions

Figure 4- 9

Parameter	Function
Partial zoom	● Single click this button, select to zoom any area when the video in the playback state is in a state of nature, drag magnified area in a certain range when it is in a non-original state, click the right mouse button to restore original state. ● Single click this button, zoom the video image size by rolling the mouse wheel.
Snapshot	Single click this button, snapshot the video which is in the playback state, the image will be stored in storage path.

4.2 Image Playback

The image playback interface of WEB client includes three following functions:

Parameter	Function
①	Function of play
②	Playback file type
③	Snapshot type

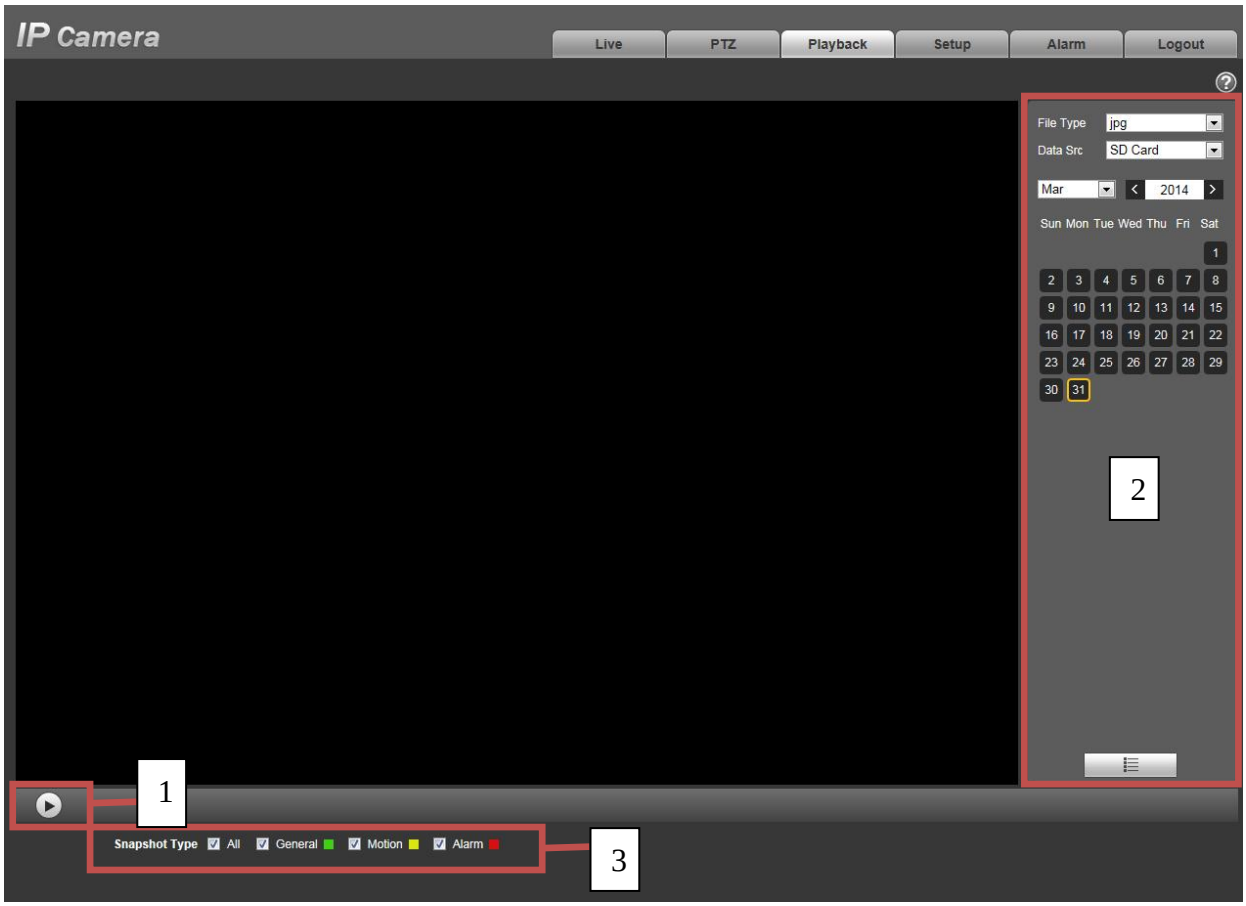


Figure 4- 10

4.2.1 Function of play

Figure 4- 11

The default state icon is shown as , means pause or not playing image.

Single click play button, switch to normal playing state, at this moment, the icon is shown as
Single click pause button, switch to pause state.

4.2.2 Playback File

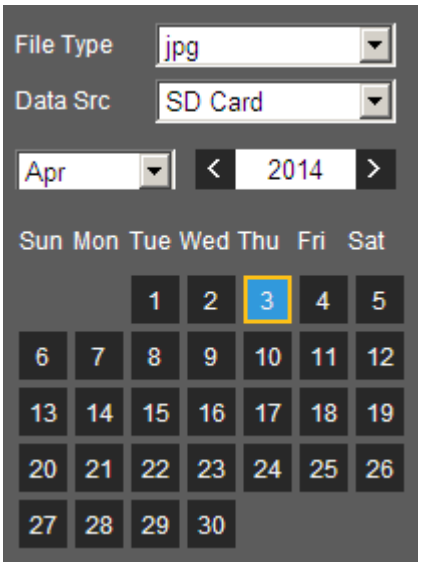

File Type
jpg
Data Src
SD Card
Apr
2014
Sun Mon Tue Wed Thu Fri Sat
1 2 3 4 5
6 7 8 9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30

Figure 4- 12

Figure 4- 13

Step 1 Single click file list option , snapshot file of selected date will be displayed in the list.

Step 2 Double click the file in the list, it will playback the snapshot image.

Parameter	Function
Search	Means checking all the snapshot images between begin time and end time of the selected date.
Download	Single click download button, download the snapshot image to local.
Back	Single click return button, go back to calendar page, and may reselect time to operate.

4.2.3 Snapshot Type

After you check the snapshot file type, it will only display the selected type file in the list.

Figure 4- 14

5 Setup

5.1 Camera

5.1.1 Conditions

Here you can view device property information. Slight differences may be found due to different network camera series. The setups become valid immediately after you set. See Figure 5-1.

Note: Only motorized zoom lens device has zoom and focus function.

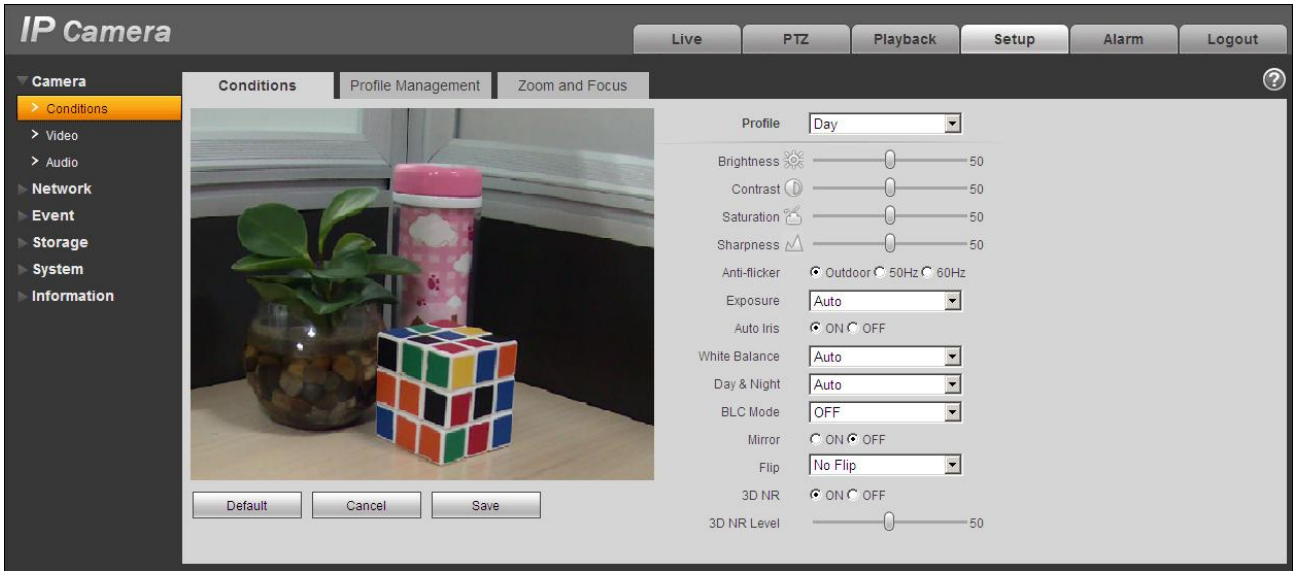


Figure 5-1

Please refer to the following sheet for detailed information.

Parameter	Function
Profile	You may select normal, day and night mode.
Brightness	It is to adjust monitor window brightness. You can adjust this value if the video is too dark or too bright. The larger the number, the bright the video is. When you input the value here, the bright section and the dark section of the video will be adjusted accordingly. Please note the video may become hazy if the value is too high. The value ranges from 0 to 100. The recommended value ranges from 40 to 60. The default value is 50.

Contrast	It is to adjust monitor window contrast. The larger the number, the higher the contrast is. You can use this function when the whole video bright is OK but the contrast is not proper. Please note the video may become hazy if the value is too low. If this value is too high, the dark section may lack brightness while the bright section may over exposure . The value ranges from 0 to 100. The recommended value ranges from 40 to 60. The default value is 50.	
Saturation	It is to adjust monitor window saturation. The larger the number, the strong the color is. This value has no effect on the general brightness of the whole video. The video color may become too strong if the value is too high. For the grey part of the video, the distortion may occur if the white balance is not accurate. Please note the video may not be attractive if the value is too low. The value ranges from 0 to 100. The recommended value ranges from 40 to 60. The default value is 50.	
Sharpness	The value here is to adjust the edge of the video. The larger the value is, the clear the edge is and vice versa. Please note there is noise if the value here is too high. The value ranges from 0 to 100. The recommended value ranges from 40 to 60. The default value is 50.	
Anti-flicker	● Outdoor: In this mode, you can switch exposure mode to get the effect under the corresponding exposure mode. ● 50Hz: When the current is 50Hz, system can auto adjust the exposure according to the environment brightness in case there is any strip. ● 60Hz: When the current is 60Hz, system can auto adjust the exposure according to the environment brightness in case there is any strip.	
Exposure	Auto	The video whole brightness can automatically change within the proper exposure range according to the different environments. The higher the gain max value is, the lower the noise is.

	Low noise	● The video whole brightness can automatically change within the proper exposure range according to the different environments. The higher the gain max value is, the lower the noise is. ● For the same environments, the noise of the low noise mode shall be smaller than the noise of the auto mode.
	Low motion blur	● The video whole brightness can automatically change within the proper exposure range according to the different environments. The lower the exposure max value is, the week the tail is. ● For the same environments, the noise of the low motion blur mode shall be smaller than that of the auto mode.
	Manual	It is to display manual exposure value.
Auto Iris	Before the setup, please make sure you have installed the auto iris. You can check the box before ON to enable this function. The auto iris may change if the light becomes different. When you disable this function, the iris is at the max. System does not add the auto iris function in the exposure control. This function is on by default.	
White Balance	It is to set the white balance mode. It has effect on the general hue of the video. This function is on by default. You can select the different scene mode such as auto, sunny, cloudy, home, office, night, disable and etc to adjust the video to the best quality. ● Auto: The auto white balance is on. System can auto compensate the color temperature to make sure the vide color is proper. ● Sunny: The threshold of the white balance is in the sunny mode. ● Night: The threshold of the white balance is in the night mode. ● Customized: You can set the gain of the red/blue channel. The value reneges from 0 to 100. ● Outdoor: White balance threshold sets to outdoor mode.	

<table>
<tr><td>Day&Night</td><td colspan="2">It is to set device day/night mode switch independently from config file. Default is auto mode.
● Color: Device outputs the color video.
● Auto: Device auto select to output the color or the B/W video according to the device feature (The general bright of the video or there is IR light or not.)
● B/W: The device outputs the black and white video.
● Sensor input: It is for external connection to IR light to control day/night mode.
Note: Only some non-IR devices support sensor input function.</td></tr>
<tr><td rowspan="4">BLC Mode</td><td>BLC</td><td>The device auto exposures according to the environments situation so that the darkest area of the video is cleared</td></tr>
<tr><td>WDR</td><td>For the WDR scene, this function can lower the high bright section and enhance the brightness of the low bright section. So that you can view these two sections clearly at the same time.
The value ranges from 1 to 100. When you switch the camera from no-WDR mode to the WDR mode, system may lose several seconds record video.</td></tr>
<tr><td>HLC</td><td>After you enabled HLC function, the device can lower the brightness of the brightest section according to the HLC control level. It can reduce the area of the halo and lower the brightness of the whole video.
The value ranges from 0 to 100. The default value is 50 when HLC is on.
HLC is enabled only when anti-flicker is outdoor and exposure mode is auto.</td></tr>
<tr><td>Off</td><td>It is to disable the BLC function. Please note this function is disabled by default.</td></tr>
<tr><td>Full-screen Test</td><td colspan="2">Click the button on the video window, you can begin full-screen test.</td></tr>
<tr><td>Flip</td><td colspan="2">It is to switch video up and bottom limit.
This function is disabled by default.
The video resolution shall be 720P or below if you want to flip 90°.</td></tr>
</table>

3D NR	This threshold is mainly for multi-frame (at least 2) image processing. It reduces noise with info between a frame and previous frame. The higher the value, the better NR will be. Default is enabled. NR level ranges from 0 to 100. The recommended value to from 40 to 60. Default value is 50.
Mirror	It is to switch video left and right limit. This function is disabled by default.
Cancel	It is to cancel the operation in current interface and restore previously saved operation.
Default	It is to set device default setup.
OK	Save config.

Profile management has three modes: normal, full time and schedule. If you select normal, the video will be configured as normal as in Figure 5-2.

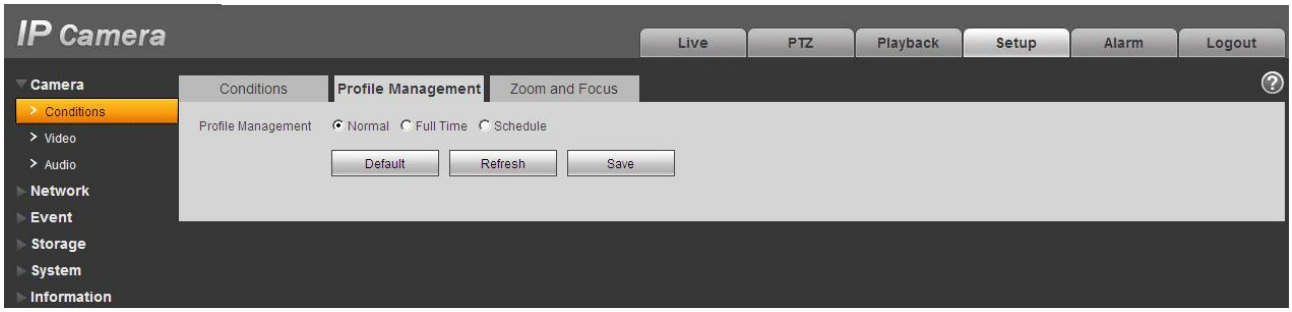


Figure 5-2

If you select full time, you must select either day or night, and the video will be configured accordingly as in Figure 5-3.

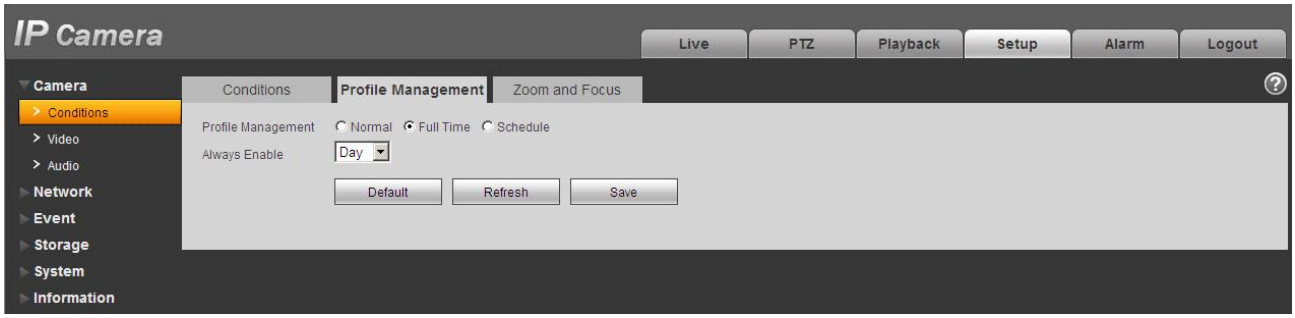


Figure 5-3

If you select schedule, you can decide detained day time interval and night time interval as in Figure 5-4. You can set 0:00 ~ 12:00 as day, and 12:00 ~ 24:00 as night.

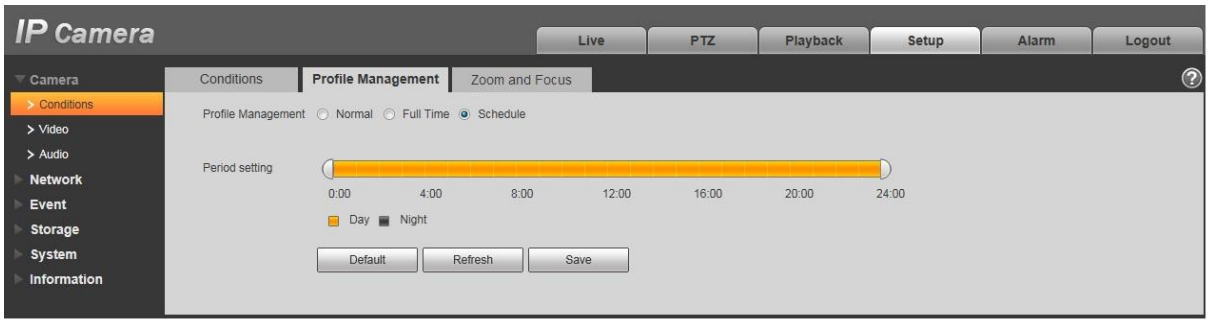


Figure 5-4

The zoom and focus interface is shown as in Figure 5-5.

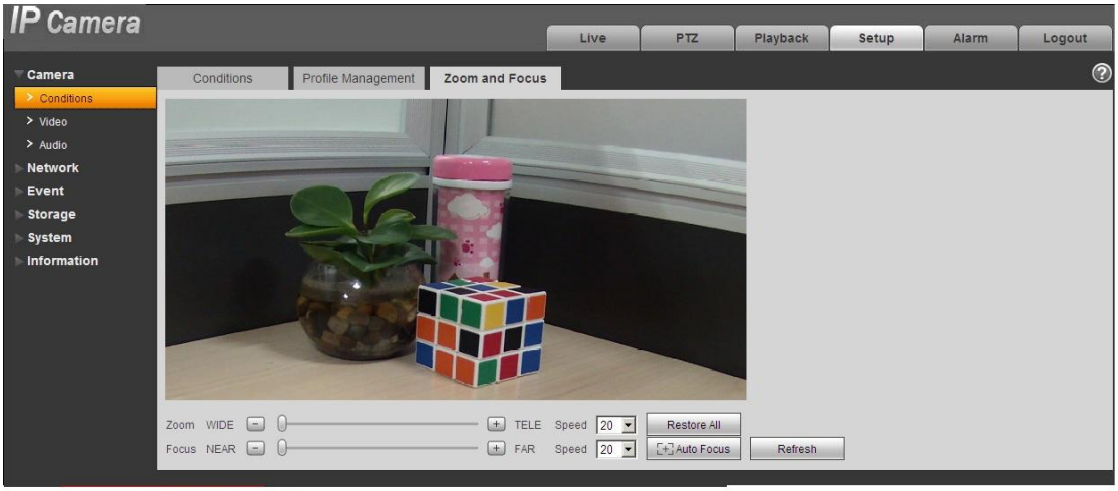


Figure 5-5

Please refer to the following sheet for detailed information.

Parameter	Function
Zoom	Adjust lens focal length. May adjust via single clicking on or long pressing + - . Step length is to adjust length of single step. After adjusting zoom, the device can focus automatically.
Focus	Adjust lens definition. May adjust via single clicking on or long pressing + - . Step length is to adjust length of single step.

Auto focus	Automatically adjust image definition. Click to adjust. Note: During auto focus, you cannot perform other lens operation.
Restore	Restore lens to zero to clear accumulated difference. Note: Please restore default settings when needed.
Refresh	Sync lens and slide bar location after hardware zooming.

Important

- The setup becomes immediately effective after you click on OK.
- IPC-3110 series product does not support the low noise mode, low motion blur, defend flicker mode, digital WDR, HLC, flip, mirror and etc functions.
- You can see WDR option only if your camera supports WDR function. System does not support long-time exposure or low noise mode.

5.1.2 Video

5.1.2.1 Video bit stream

The video bit stream interface is shown as below. See Figure 5-6.

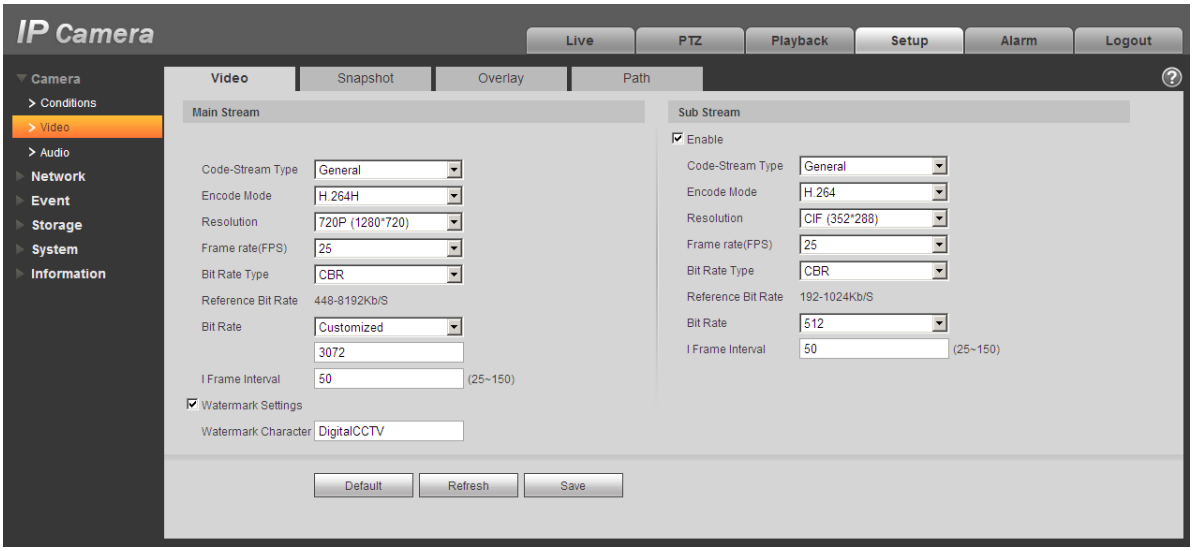


Figure 5-6

Please refer to the following sheet for detailed information.

Parameter		Function
Main stream	Bit stream type	It includes general stream, motion stream and alarm stream. You can select different encode frame rates form different recorded events. System supports active control frame function (ACF). It allows you to record in different frame rates. For example, you can use high frame rate to record important events, record scheduled event in lower frame rate and it allows you to set different frame rates for motion detection record and alarm record.
	Encode mode	There are three options: H.264 (main profile standard), H.264H (high profile standard), H.264B (baseline standard)encode and MJPG encode. ● H.264 ： Main Profile encode mode. ● H.264H : High Profile encode mode. ● H.264B ： Baseline Profile encode mode ● MJPEG ： In this encode mode, the video needs larger bit stream to guarantee the video definition. You can use the max bit stream value in the recommend bit to get the better video output effect.
	Resolution	There are multiple resolutions. You can select from the dropdown list. For each resolution, the recommended bit stream value is different. **Important** You can not set a resolution higher than 720P (not including 720P) when the flip function is in process.
	Frame Rate	PAL: 1～25f/s，NTSC: 1～30f/s.. The frame rate may vary due to different resolutions.
	Bit Rate Type	There are two options: VBR and CBR. Please note, you can set video quality in VBR mode.
	Reference Bit Stream	Reference bit rate value according to the resolution and frame rate you have set.
	Bit Rate	● In VBR, the bit rate here is the max value. In CBR, it is a fixed value. ● See reference bit stream for recommended value.
	I Frame	Here you can set the P frame amount between two I frames. The value ranges from 1 to 150. Default value is 50. Recommended value is frame rate *2.

Parameter		Function
	Watermark	This function allows you to verify the video is tampered or not. Here you can select watermark bit stream, watermark mode and watermark character. Default character is Digital CCTV. The max length is 85-digit. The character can only include number, character and underline.
Sub stream	Enable	Please check the box here to enable extra stream function. This function is enabled by default.
	Bit stream type	General bit stream.
	Encode mode	There are three options: H.264(main profile standard, H.264H (high profile standard), H.264B(baseline standard)encode and MJPG encode. ● The H.264, H.264H and H.264B both are H264 bit stream. H.264 is the Main Profile encode and the H.264B is the Baseline Profile encode mode. H.264B is for Blackberry cell phone to realize the monitor. You need to enable the sub stream function in your camera and set the resolution as CIF. Then you can monitor via the Blackberry cell phone. ● MJPEG: In this encode mode, the video needs to large bit stream to guarantee the video definition. You can use the max bit stream value in the recommend bit to get the better video output effect.
	Resolution	There are multiple resolutions. You can select from the dropdown list. For each resolution, the recommended bit stream value is different.
	Frame Rate	PAL: 1～25f/s，NTSC: 1～30f/s.. The frame rate may vary due to different resolutions.
	Bit Rate Type	There are two options: VBR and CBR. Please note, you can set video quality in VBR mode.
	Recommended Bit	Recommended bit rate value according to the resolution and frame rate you have set.
	Bit Rate	● In CBR, the bit rate here is the max value. In dynamic video, system needs to low frame rate or video quality to guarantee the value. ● The value is null in VBR mode. ● Please refer to recommend bit rate for the detailed information.

Parameter		Function
	I Frame	Here you can set the P frame amount between two I frames. The value ranges from 1 to 150. Default value is 50. Recommended value is frame rate *2.

5.1.2.2 Snapshot

The snapshot interface is shown as in Figure 5-7.

Figure 5-7

Please refer to the following sheet for detailed information.

Parameter	Function
Snapshot type	There are two modes: general (schedule) and Event (activation).
Image size	It is the same with the resolution of snapshot (main stream or sub stream).
Quality	It is to set the image quality. There are six levels.
Snapshot bit stream	It is to set snapshot bit rate as main or sub.
Interval	It is to set snapshot frequency. Optional 1s to 7s per snapshot or self-defined.

5.1.2.3 Video Overlay

The video overlay interface is shown as in Figure 5-8.

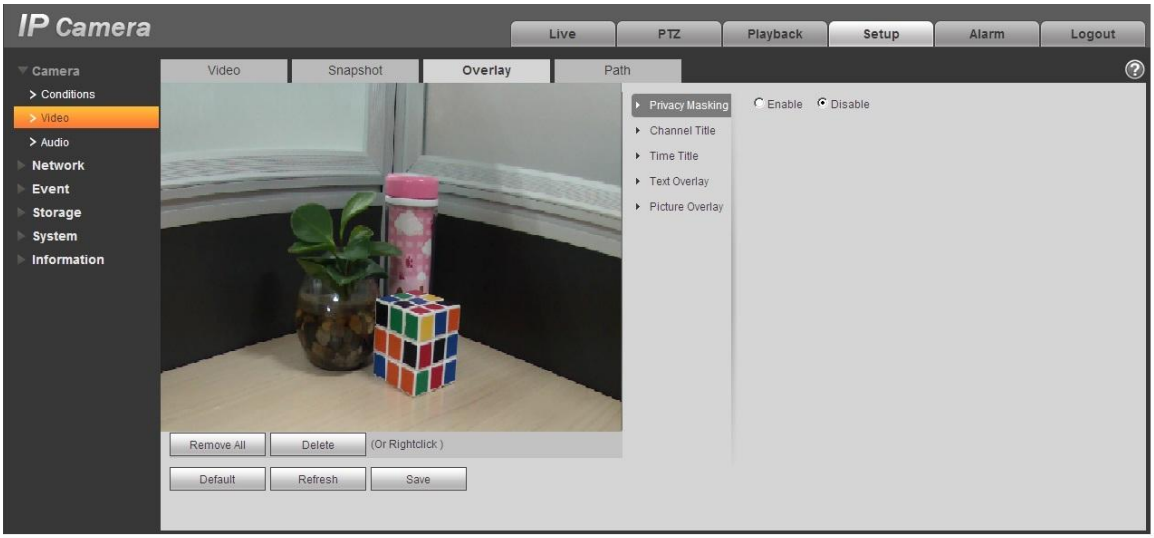


Figure 5-8

Please refer to the following sheet for detailed information.

Parameter	Function
Privacy mask	● Here you can privacy mask the specified video in the monitor video. ● System max supports 4 privacy mask zones.
Time Title	● You can enable this function so that system overlays time information in video window. ● You can use the mouse to drag the time tile position.
Channel Title	● You can enable this function so that system overlays channel information in video window. ● You can use the mouse to drag the channel tile position.
Location	● You can enable this function to overlay location information in video window. ● You can click on setup button to set location information. You can use the mouse to drag location box to adjust its position. Alignment include align left and align right.
Picture Overlay	● Check”open”, the video monitoring window will display overlay picture; check “close”, it will not display. ● Single click uploaded picture, you can overlay the local pictures to the video monitoring window. Drag the yellow frame to adjust the location of overlay picture. Note: ● Location and picture overlay can’t be operated at the same time.

Refresh	● After setting privacy mask, channel title, time title, location and picture overlay, and saved successfully; check the effect after setting by refresh button.

5.1.2.4 Path

The storage path interface is shown as in Figure 5-9.

Figure 5-9

The storage path is linked with snapshot and video of the preview interface, can set the storage path of monitoring snapshot and video respectively. The storage path is linked with snapshot, download and clip of the playback interface and can set the storage path of playback snapshot, video download and playback clip.

- Default live snapshot path：C:\Documents and Settings \Users\admin\WebDownload\LiveSnapshot
- Default live record path：C:\Documents and Settings\ \Users\admin\WebDownload\LiveRecord
- Default playback snapshot path：C:\Documents and Settings\Users\admin\WebDownload\PlaybackSnapshot
- Default playback download path：C:\Documents and Settings\Users\admin\WebDownload\PlaybackRecord
- Default playback clip path：C:\Documents and Settings\Users\admin\WebDownload\VideoClips

Note:

Admin is the PC account of local log-in.

5.1.3 Audio

Please note some series products do not support audio function.

The audio interface is shown as below. See Figure 5-10.

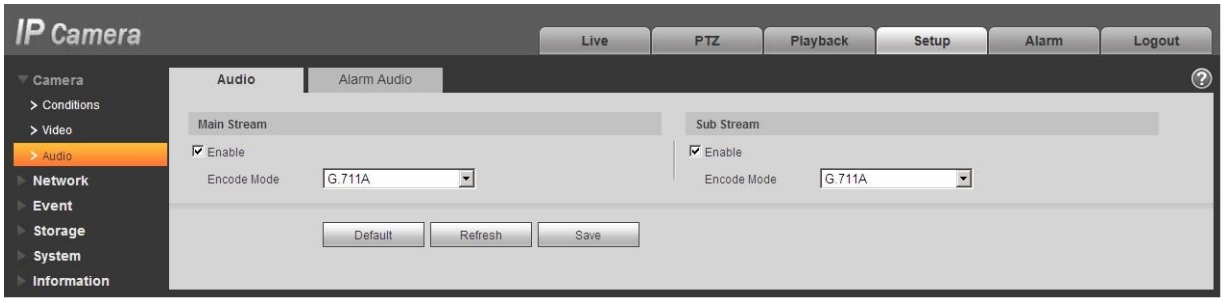


Figure 5-10

Please refer to the following sheet for detailed information.

Parameter	Function
Audio enable	Main stream: Recorded file only contains video by default. You need to check the audio box here to enable audio function. Sub (Extra) stream: Recorded file only contains video by default. You need to check the audio box here to enable audio function.
Encode mode	The encode mode of the main stream and extra stream include PCM, G.711A and G.711Mu. The setup here is for audio encode mode and the bidirectional talk encode both.

5.1.4 Alarm Audio

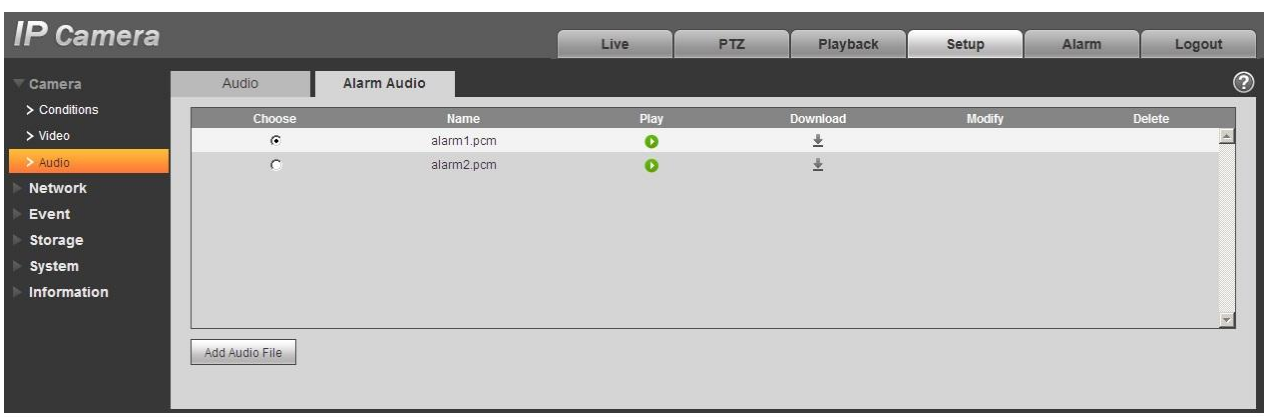


Figure 5-11

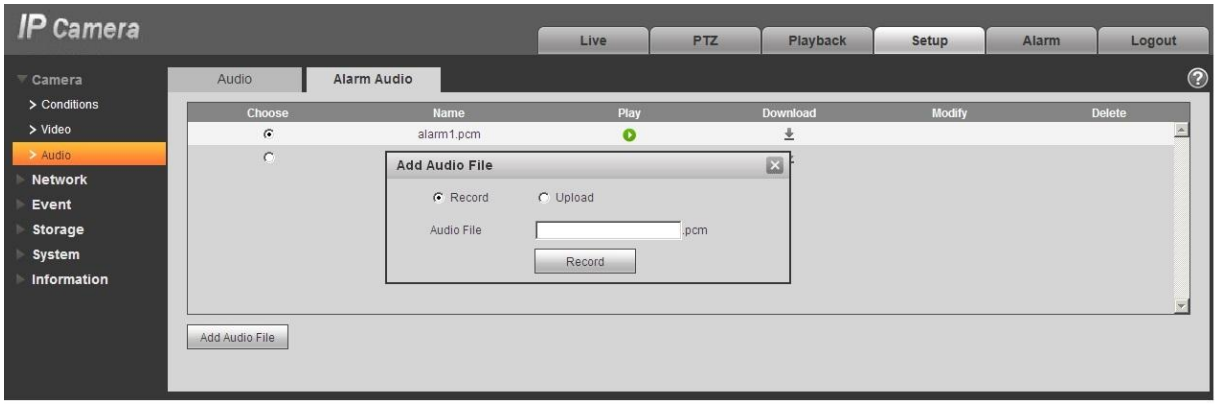


Figure 5-12

Audio management currently supports one record format: pcm and two upload formats: pcm and wav2, and select an audio file as alarm audio linkage.

The way to download webpage alarm playback audio file to local is as follows:

Step 1 Use left mouse button click the hollow circle in the left “option” list, show as , means sucessful selection of alarm audio.

Step 2 Use right mouse button click , select “save as” to download.

5.2 Network

5.2.1 TCP/IP

The TCP/IP interface is shown as in Figure 5-13.

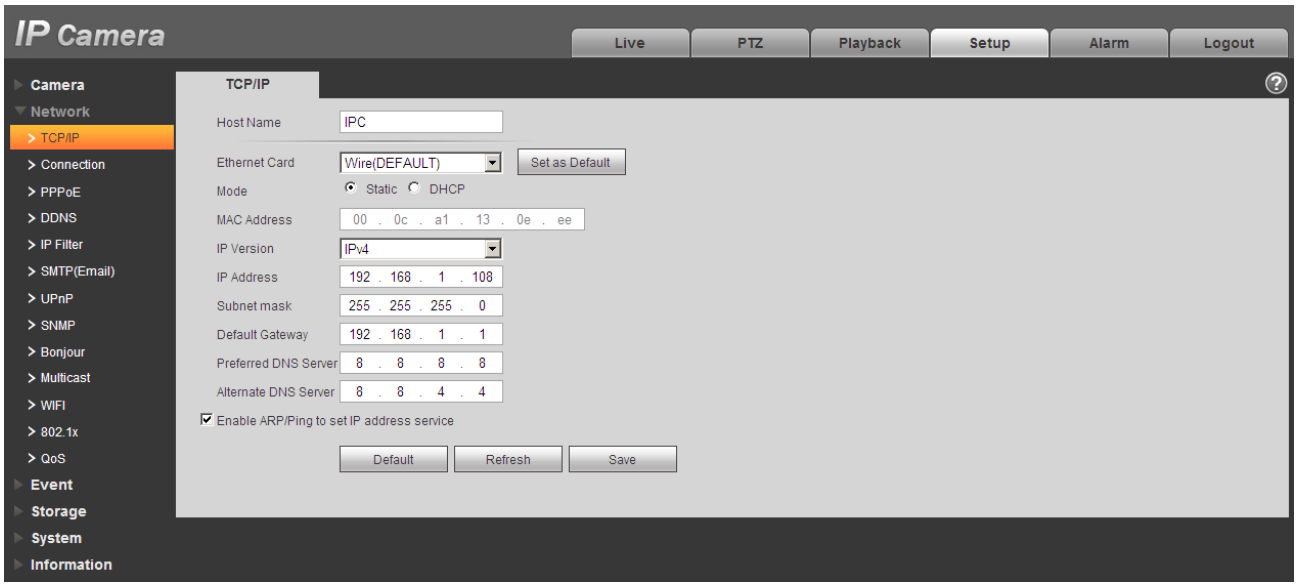


Figure 5-13

Please refer to the following sheet for detailed information.

Parameter	Function
Host Name	It is to set current host device name. It max supports 32-digit character.
Ethernet Card	Please select the Ethernet port. It is for the wire LAN by default. Please note for the -W series product, it has the wireless network card, and you can modify the default Ethernet port setup. Please note the device needs to reboot to activate the new setup once you modify the default setup.
Mode	There are two modes: static mode and the DHCP mode. ● The IP/submask/gateway are null when you select the DHCP mode to auto search the IP. ● If you select the static mode, you need to set the IP/submask/gateway manually. ● If you select the DHCP mode, you can view the IP/submask/gateway from the DHCP. ● If you switch from the DHCP mode to the static mode, you need to reset the IP parameters. ● Besides, IP/submask/gateway and DHCP are read-only when the PPPoE dial is OK.
Mac Address	It is to display hose Mac address.

IP Version	It is to select IP version. IPV4 or IPV6. You can access the IP address of these two version.
IP Address	Please use the keyboard to input the corresponding number to modify the IP address and then set the corresponding subnet mask and the default gateway.
Preferred DNS	DNS IP address.
Alternate DNS	Alternate DNS IP address.
Enable ARP/Ping set device IP address service.	You can use ARP/Ping command to modify or set the device IP address if you know the device MAC address. Before the operation, please make sure the network camera and the PC in the same LAN. This function is on by default. You can refer to the steps listed below. **Step 1**: Get an IP address. Set the network camera and the PC in the same LAN. **Step 2**: Get the physical address from the label of the network camera. **Step 3**: Go to the Run interface and then input the following commands. arp –s <IP Address> <MAC> ping –l 480 –t <IP Address> Such as：arp -s 192.168.0.125 11-40-8c-18-10-11 ping -l 480 -t 192.168.0.125 **Step 4**: Reboot the device. **Step 5**: You can see the setup is OK if you can see there are output information such as “Reply from 192.168.0.125 …” from the command output lines. Now you can close the command line. **Step 6**: Open the browse and then input http://<IP addres>. Click the Enter button, you can access now.

5.2.2 Connection

The connection interface is shown as in Figure 5-14.

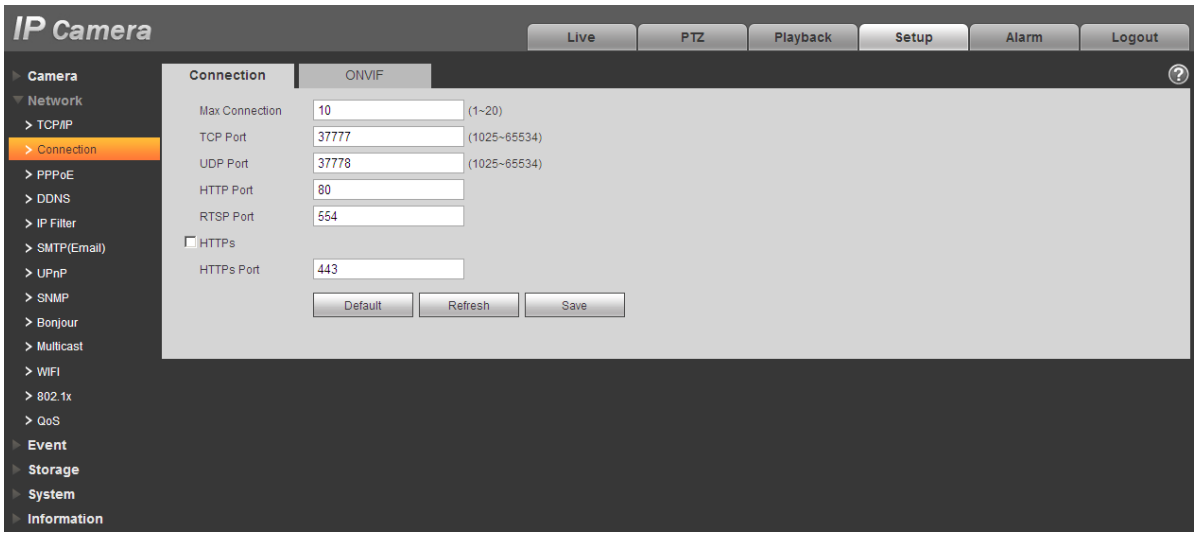


Figure 5-14

Please refer to the following sheet for detailed information.

Parameter	Function
Max connection	It is the max Web connection for the same device. The value ranges from 1 to 20. The default connection amount is 10.
TCP port	A port to provide service for TCP Protocol communications, ranges from 1025~65534.
UDP port	A port for user data package protocol, ranges from 1025~65534.
HTTP port	HTTP communication port，ranges from 1025~65534.

RTSP port	● Usually, the default value is 554. You do not need to input again if you are using the default value. When you are using QuickTime (Apple browser) or VLC play real-time video, you can use the following format to play. The Blackberry also supports this function. ● Real-time monitor bit stream Url format. Please specify the channel number, bit stream type in the Url if you are requesting real-time monitor bit stream Rtsp stream media service. You still need to provide user name or password if it has verification information. ● Using blackberry access, users need to set encode mode to H.264B, resolution to CIF, and audio off. ● The Url format is shown as below: rtsp://username:password@ip:port/cam/realmonitor?channel=1&subtype=0 You need to input the following items manually. Username/password/IP/port/subtype. The IP is device IP and the port default value is 554. You can leave it in blank if it is the default value. The channel number begins with 1. subtype：bit stream type，main stream is 0（subtype=0）and extra stream is 1（subtype=1）. For example, request channel 2 sub stream of a device, Url is shown as below: rtsp://admin:admin@10.12.4.84:554/cam/realmonitor?channel=2&subtype=1 You do not need to input the user name and password if you do not need the verification. Such as: rtsp://ip:port/cam/realmonitor?channel=1&subtype=0
HTTPs	It is to enable HTTPs communication service control. If you enable this function, you can use https://ip:port to login the device. In data encryption protection mode, you can use https://ip to login if you are using the default port.
HTTPs Port	The HTTPs communication port value ranges from 1025 to 65534.

Note:

● 0～1024、37780～37880、1900、3800、5000、5050、9999、37776、39999、42323 and etc are the special ports value and they are not open for user to set

● Not recommended to use the default of other ports when setting port.

5.2.3 ONVIF

ONVIF（Open Network Video Interface Forum），this standard describes network video model, port, data type and data interaction mode. The aim of ONVIF is to realize a network video frame protocol and makes the video products (video front-end, video equipment) from different manufacturers completely compatible with each other.

ONVIF function default is close

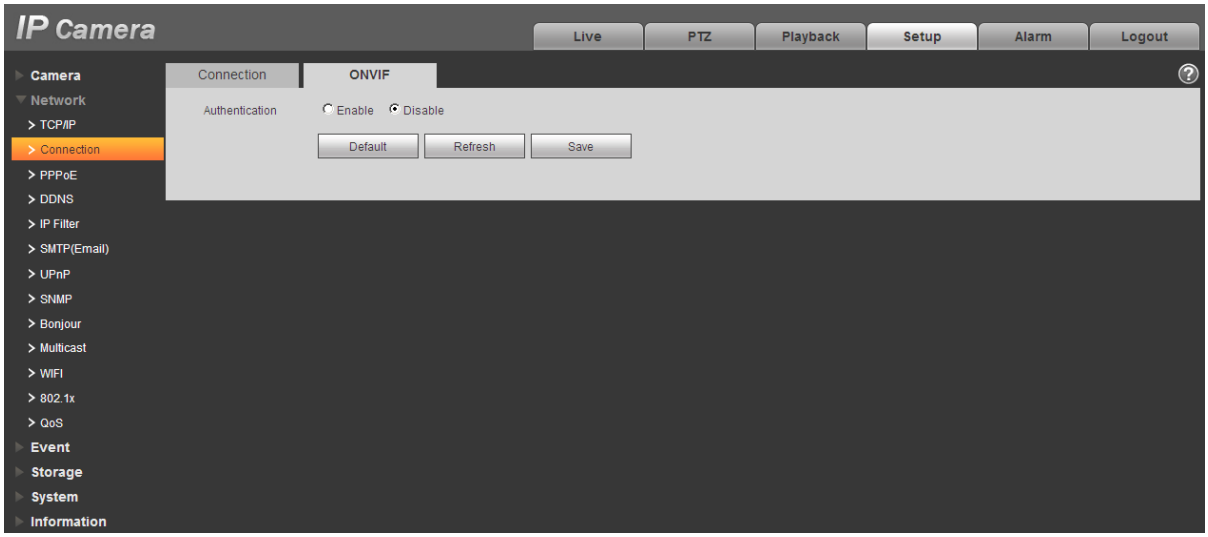


Figure 5-15

5.2.4 PPPoE

The PPPoE interface is shown as in Figure 5-.

Input the PPPoE user name and password you get from the IPS (internet service provider) and enable PPPoE function. Please save current setup and then reboot the device to get the setup activated.

Device connects to the internet via PPPoE after reboot. You can get the IP address in the WAN from the IP address column. When PPPoE is on, please disable UPnP to avoid influence on dial-up.

Please note, you need to go to the IP address item to via the device current device information. You can access the client-end via this address.

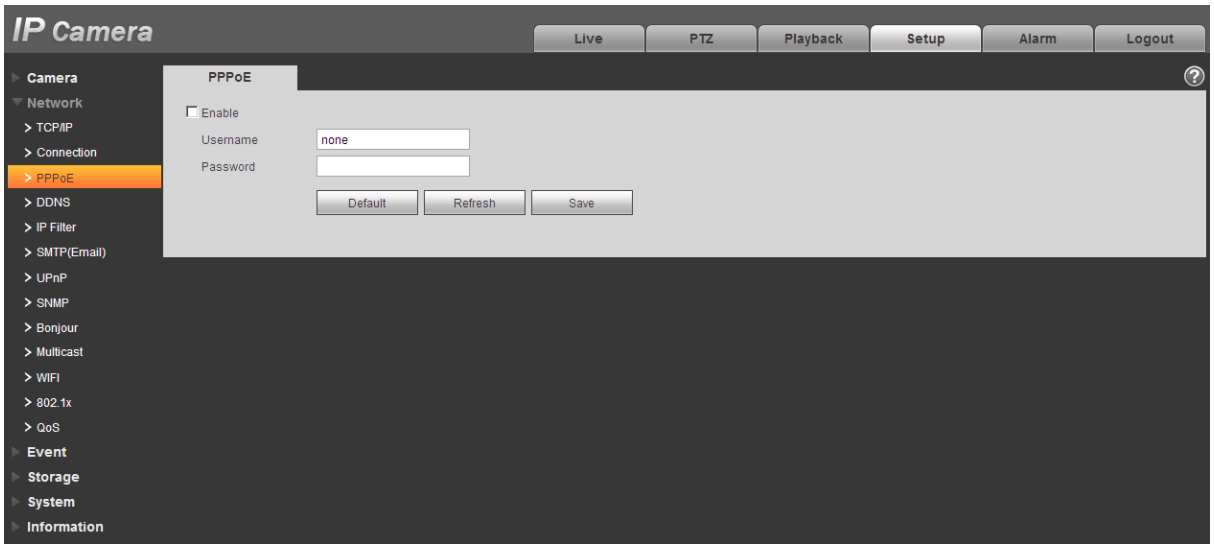


Figure 5-16

5.2.5 DDNS

The DDNS interface is shown as in Figure 5-17.

The DDNS is to set to connect the various servers so that you can access the system via the server. Please go to the corresponding service website to apply a domain name and then access the system via the domain. It works even your IP address has changed. When the device connects to WLAN, you should disable UPnP.

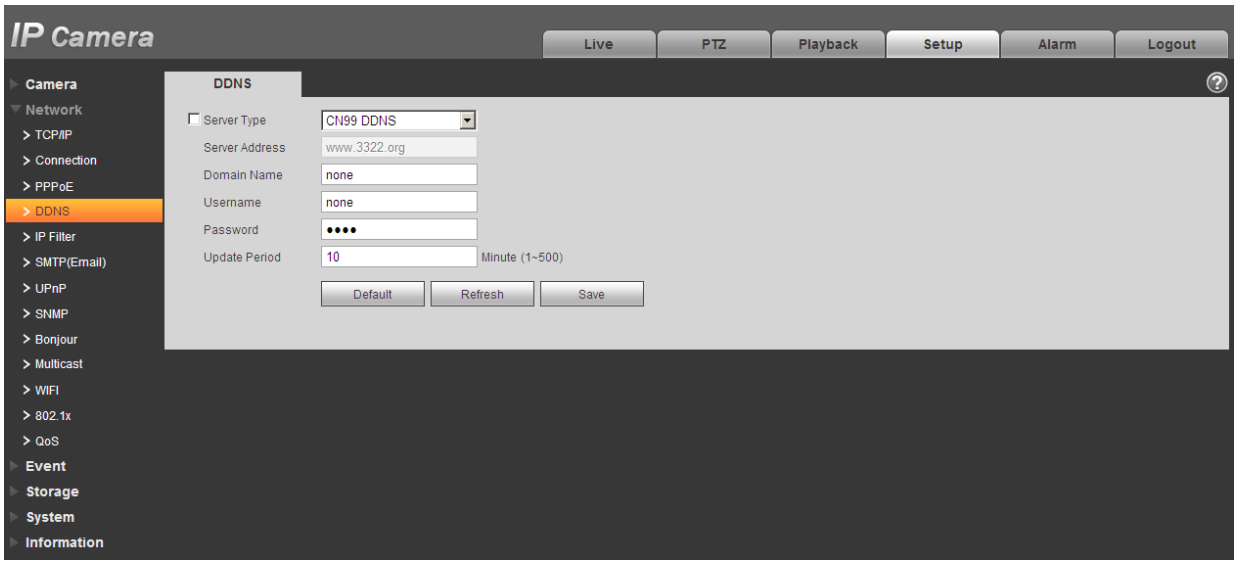


Figure 5-17

Please refer to the following sheet for detailed information.

Parameter	Function
Server Type	You can select DDNS protocol from the dropdown list and then enable DDNS function. The QUICK DDNS means you use your self-defined private protocol to realize DDNS function.
Server Address	DDNS server IP address. Under CN99DDNS the default server address is www.3322.org.
Mode	The default is auto, and you can select manual.
Domain Name	Auto and self-defined domain names are both MAC address.dahuaddns.com. You can self-define prefix.
Test	It is to test domain name. It is available only under manual mode.
Username	The user name you input to log in the server. Optional.

The DDNS interface is shown as in Figure 5-18.

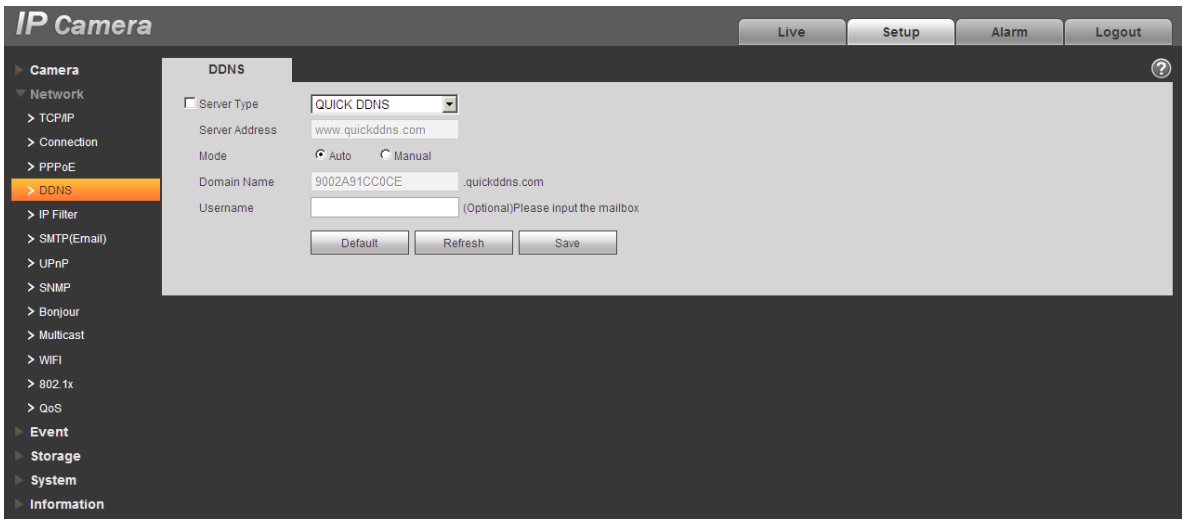


Figure 5-18

Parameter	Function
Server Type	You can select DDNS protocol from the dropdown list and then enable DDNS function. The QUICK DDNS protocol means you use your self-defined private protocol to realize DDNS function.
Server Address	DDNS server IP address
Domain Name	Your self-defined domain name.

Parameter	Function
Username	The user name you input to log in the server.
Password	The password you input to log in the server.
Update period	● Device sends out alive signal to the server regularly. ● You can set interval value between the device and DDNS server here.

5.2.6 IP Filter

The IP filter interface is shown as in Figure 5-19.

You can enable IP filter function so that some specified IP/MAC user can access the network camera.

You can add IP address or IP address section.

If you do not check the box here, it means there is on access limit.

Here you can add IP address and MAC address. You must add these address before enabling the trusted sites.

Please note: You must set MAC address in the same network segment.

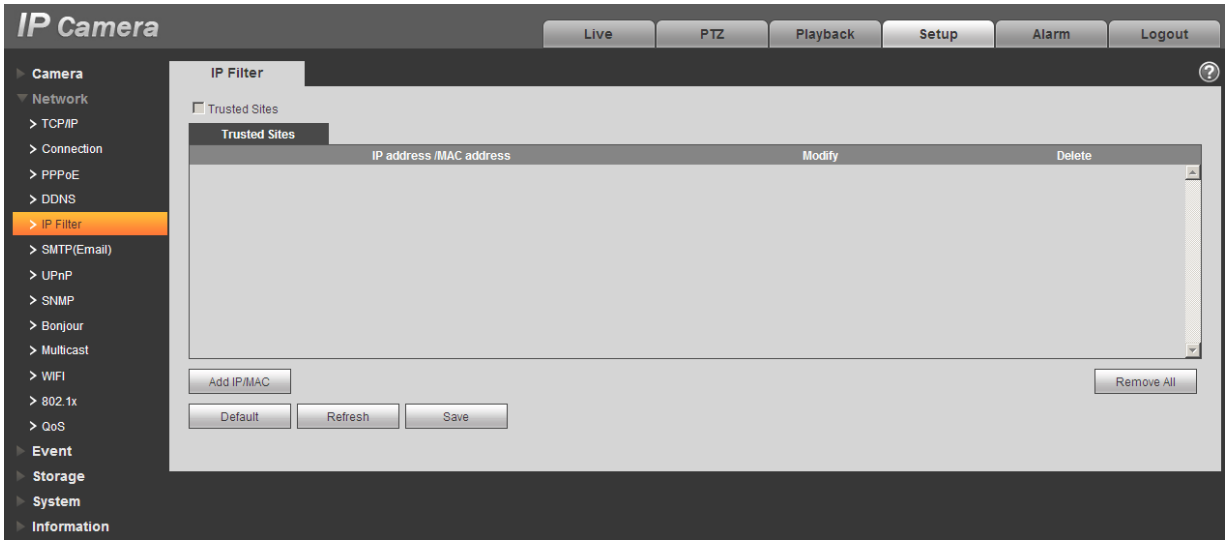


Figure 5-19

5.2.7 SMTP （e-mail)

The SMTP interface is shown as in Figure 5-20.

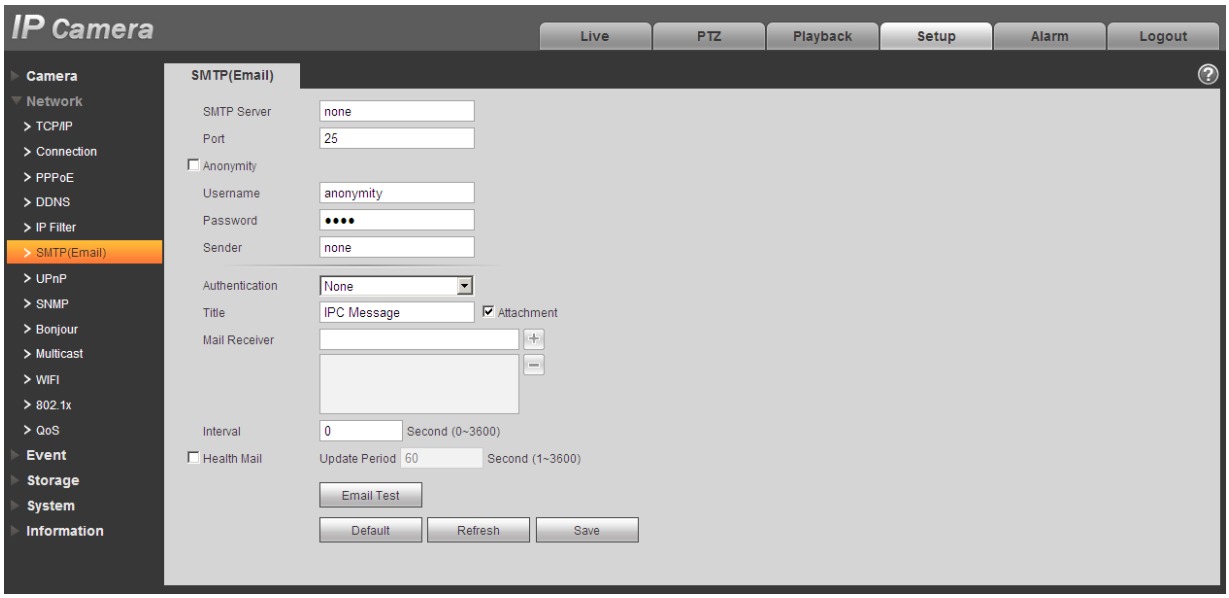


Figure 5-20

Please refer to the following sheet for detailed information.

Parameter	Function
SMTP Server	Input server address and then enable this function.
Port	Default value is 25. You can modify it if necessary.
Anonymity	For the server supports the anonymity function. You can auto login anonymously. You do not need to input the user name, password and the sender information.
User Name	The user name of the sender email account.
Password	The password of sender email account.
Sender	Sender email address.
Authentication (Encryption mode)	You can select SSL, TLS or none.
Title (Subject)	Input email subject here.
Attachment	System can send out the email of the snapshot picture once you check the box here.
Mail receiver	Input receiver email address here. Max three addresses.

Parameter	Function
Interval	The send interval ranges from 0 to 3600 seconds. 0 means there is no interval. Please note system will not send out the email immediately when the alarm occurs. When the alarm, motion detection or the abnormity event activates the email, system sends out the email according to the interval you specified here. This function is very useful when there are too many emails activated by the abnormity events, which may result in heavy load for the email server.
Health mail enable	Please check the box here to enable this function.
Update period (interval)	This function allows the system to send out the test email to check the connection is OK or not. Please check the box to enable this function and then set the corresponding interval. System can send out the email regularly as you set here.
Email test	The system will automatically sent out a email once to test the connection is OK or not .Before the email test, please save the email setup information.

5.2.8 UPnP

It allows you to establish the mapping relationship between the LAN and the public network. Internal port is network camera port, external port is router port, users can visit network camera when they visit external port. Please close UPnP function when the router is not used for UPnP in order not to influence other functions.

Start UPnP, network camera support UPnP protocol. In Windows XP or Windows Vista system, network camera will detect it automatically in Windows network neighborhood if UPnP is started by the system.

Please refer to the following steps if UPnP is installed in Windows system:

Step 1 From Start->Control Panel->Add or remove programs.

Step 2 Click the “Add/Remove Windows Components”

Step 3 select the “Network Services” from the Windows Components Wizard.

Click the Details button

Step 4 Check the “Internet Gateway Device Discovery and Control client” and “UPnP User Interface”.

Please click OK to begin installation.

UPnP is divided into auto and manual two mapping modes.

Manual mapping mode allows users to modify external port; Automatic mapping mode selects free port and complete port mapping automatically, the users don’t need to modify mapping.

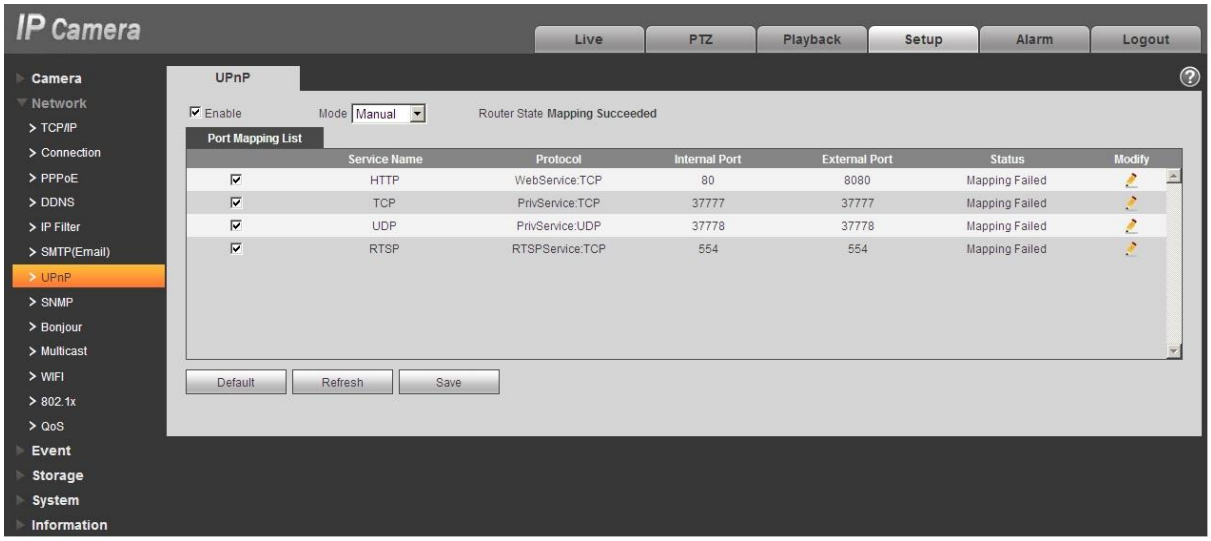


Figure 5-21

5.2.9 SNMP

The SNMP interface is shown as in Figure 5-22.

SNMP is Simple Network Management Protocol. The SNMP allows the communication between the network management work station software and the proxy of the managed device. Please install the software such as MG MibBrowser 8.0c software or establish the SNMP service before you use this function.

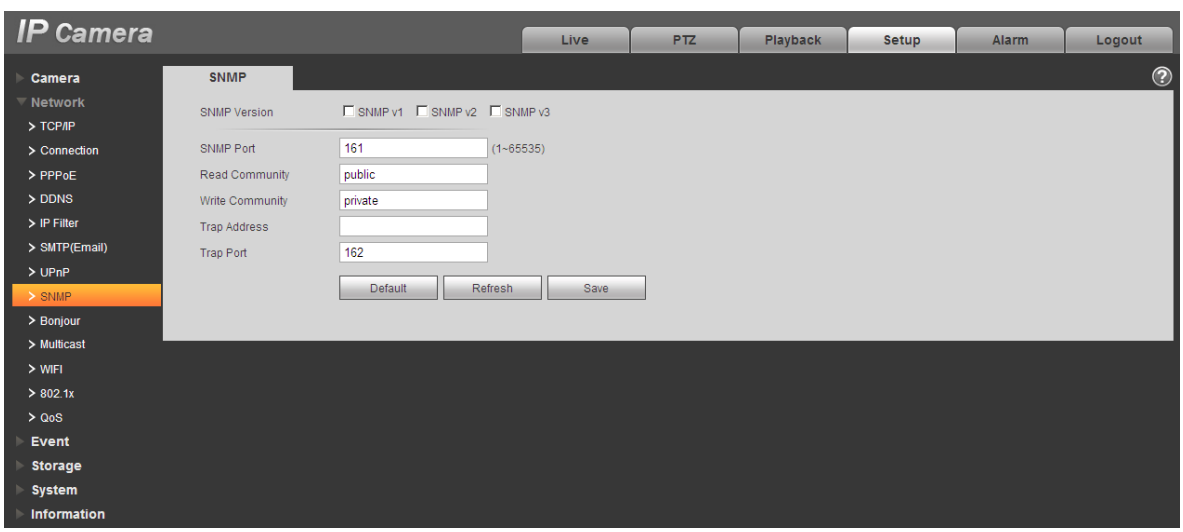


Figure 5-22

Please refer to the following sheet for detailed information.

Parameter	Function
SNMP version	● Check SNMP v1, system only processes the information of V1. ● Check SNMP v2, system only processes the information of V2. Check SNMP v3, you can set account, password and authentication way. You need to set the corresponding account, password and authentication way for security verification when the server wants to access the device. At the same time, the V1 and V2 option is null.
SNMP port	The listening port of the proxy program of the device. It is a UDP port not a TCP port. The value ranges from 1 to 65535. The default value is 161
Community	It is a string. It is a command between the manage process and the proxy process. It defined the authentication, access control and the management relationship between one proxy and one group of the managers. Please make sure the device and the proxy are the same.
Read community	It is a string. It is a command between the manage process and the proxy process. It defined the authentication, access control and the management relationship between one proxy and one group of the managers. Please make sure the device and the proxy are the same. The read community will read all the objects the SNMP supported in the specified name. The default setup is public.
Write community	It is a string. It is a command between the manage process and the proxy process. It defined the authentication, access control and the management relationship between one proxy and one group of the managers. Please make sure the device and the proxy are the same. The read community will read/write/access all the objects the SNMP supported in the specified name. The default setup is write.
Trap address	The destination address of the Trap information from the proxy program of the device.
Trap port	The destination port of the Trap information from the proxy program of the device. It is for the gateway device and the client-end PC in the LAN to exchange the information. It is a non-protocol connection port. It has no effect on the network applications. It is a UDP port not TCP port. The value ranges from 1 to 165535. The default value is 162.

Parameter	Function
Authentication	Only when SNMP version is SNMP v3, you shall config this parameter. You can select either MD5 or SHA. The default is MD5.
Authentication password	Only when SNMP version is SNMP v3, you shall config this parameter. Password requires min of 8 characters.
Encryption	Only when SNMP version is SNMP v3, you shall config this parameter. The default is CBC-DES.
Encryption password	Only when SNMP version is SNMP v3, you shall config this parameter. Password requires min of 8 characters.

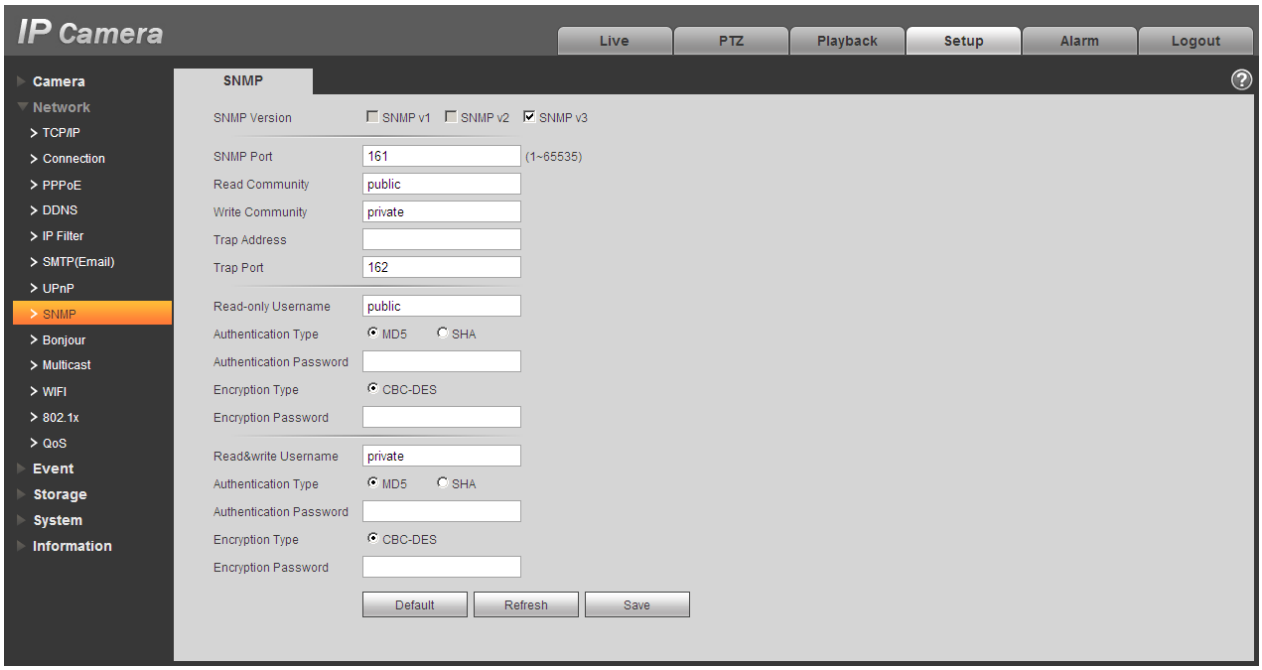


Figure 5-23

When checking SNMP v3 version, as shown in figure 5-23, the setup of SNMP port, read community, write community, Trap address, Trap port are the same as SNMPv1 and SNMPv2. Only when SNMP version is SNMPv3, need to be configured with the parameters in the following sheet.

Parameter	**Function**
SNMP version	SNMP v3

Parameter	Function
Read-only user name	Default is public。 Note: Name can only consist of numbers, letters and underline.
Read/write user name	Default is private。 Note: Name can only consist of numbers, letters and underline.
Authentication way	MD5 or SHA (optional)，default is MD5。
Authentication password	Password length no less than 8 words
Encryption way	Default is CBC-DES.
Encrypted password	Password length no less than 8 words

5.2.10 Bonjour

The Bonjour interface is shown as below. See Figure 5-24.

Bonjour is based on the multicast DNS service from the Apple. The Bonjour device can automatically broadcast its service information and listen to the service information from other device.
After starting Bonjour function, network camera will be detected automatically in the operation system and client which support Bonjour. You can view the server name when the network camera is detected by the Bonjour.
In the operation system and client which support Bonjour, the steps to visit network camera WEB page by Safari browser are shown as follows:

Step 1 Single click the “Display All Bookmarks” of Safari browser.
Step 2 open the Bonjour, system can auto detect the network camera of the Bonjour function in the LAN
Step 3 Single click to visit corresponding WEB page

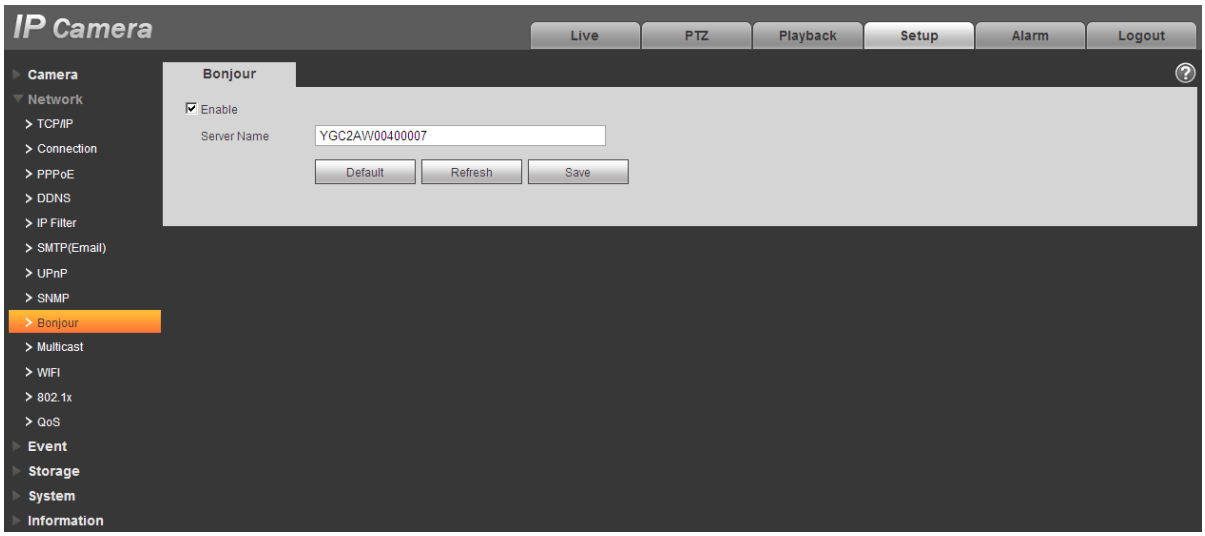


Figure 5-24

5.2.11 Multicast

The multicast interface is shown as in Figure 5-25.

Multicast is a transmission mode of data packet. When there is multiple-host to receive the same data packet, multiple-cast is the best option to reduce the broad width and the CPU load. The source host can just send out one data to transit. This function also depends on the relationship of the group member and group of the outer.

Here you can set multicast address and port. You also need to go to Live interface to set the protocol as Multicast.

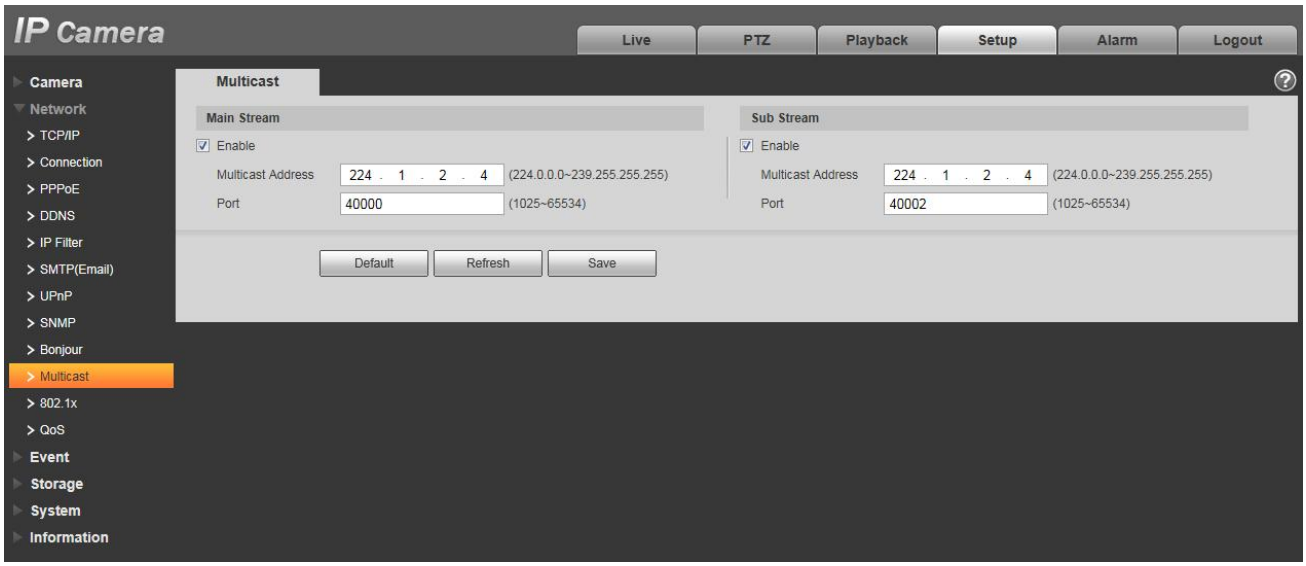


Figure 5-25

Please refer to the following sheet for detailed information.

Parameter	Function
Enable	Select to enable multicast function. Main stream and sub stream cannot be used at the same time.
Multicast address	Main/sub stream multicast address is 239.255.42.42 and its range is 224.0.0.0～239.255.255.255.
Port	Multicast port. Main stream is 36666, sub stream is 36667and the range is 1025～65534.

5.2.12 WIFI

Important:

- **This function is for the device of WIFI module.**
- **Only IPC-K100 series has WPS function.**

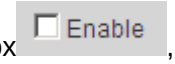
The WIFI interface is shown as in Figure 5-26.

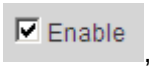
The WFI working information list can display the name, the condition and the IP information of connect hot spot; generally please “refresh” WIFI’s working information after reconnection to guarantee

the real time display of working condition, because it usually takes some time to connect WIFI hot spot, which depends on the intensity of network signal.

Figure 5-26

WIFI setting method is as follows:

Step 1 Single click the select box 

, display as 

, means starting WIFI function.

Step 2 Two ways to connect to the network:

Single click “search SSID”, WIFI hot spot of current network camera environment will be displayed in the list, double click on one can pop up the signal intensity and anthentication method of the hot spot, please enter the password if the users need to. Keep the choice of password index same as the router when entering password.

See Figure 5-23

Single click “Add SSID”, pop up the interface as shown in the figure below, enter the network ID in the dialog box.

Note:

Single click “SSID” after adding to confirm if the network ID is available, if the WIFI hot spot can be searched, means the network ID is available.

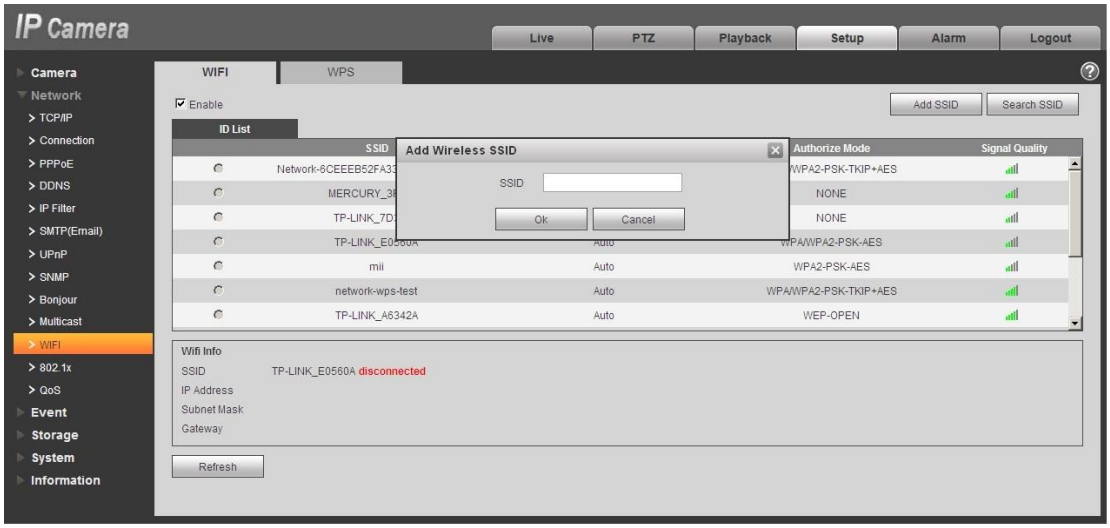


Figure 5-27

5.2.13 WPS

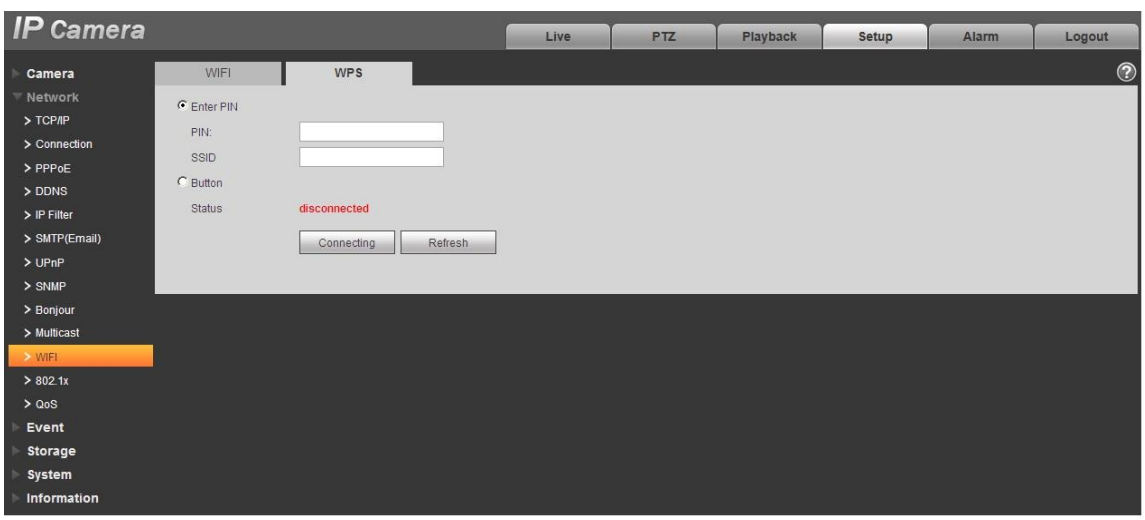


Figure 5-28

Both PIN code and SSID are acquired from router; please “refresh” WIFI working information to ensure the real time display of working condition after filling in correctly.

5.2.14 802.1x

802.1x (port based network access control protocol) supports manual selection of authentication method to control if device connected to LAN can join the LAN. It well supports authentication, charging, safety and management requirement of network .

See Figure 5-29.

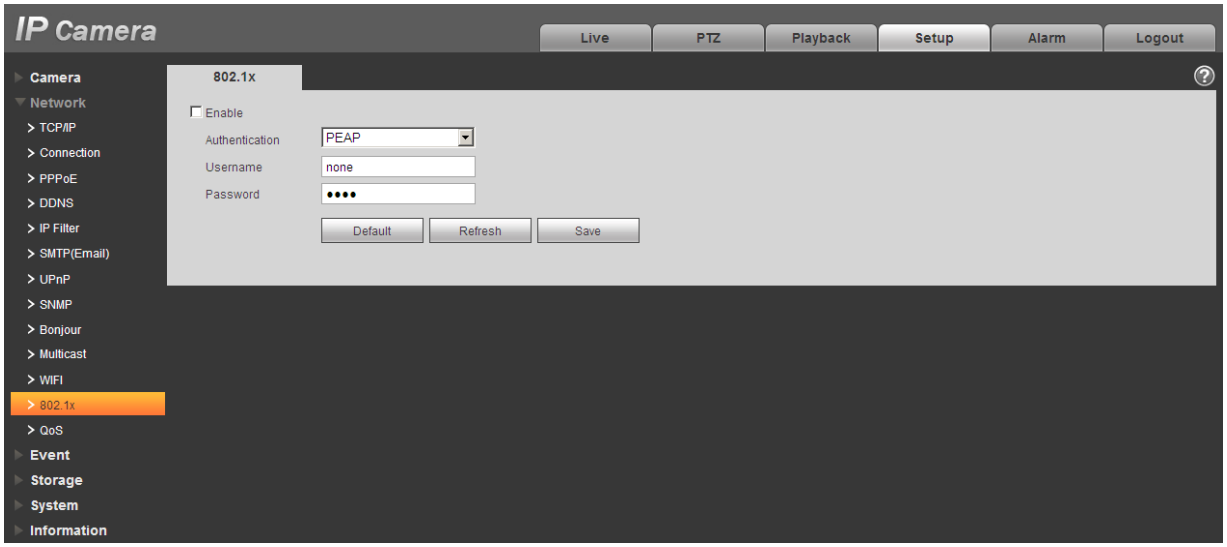


Figure 5-29

Please refer to the following sheet for detailed information.

Parameter	Function
Authentication	PEAP (protected EAP protocol).
Username	It needs the username to login, which is authenticated by the server.
Password	Please input password here.

5.2.15 QoS

The QoS interface is shown as below. See Figure 5-30.

Qos (Quality of Service) is network security mechanism. It is a technology to fix the network delay and jam problem and etc. For the network service, the quality of service includes the transmission bandwidth, delay, the packet loss and etc. We can guarantee the transmission bandwidth, lower the delay, reduce the loss of the data packet and anti-dither to enhance the quality.

We can set the DSCP (Differentiated Services Code Point) of the IP to distinguish the data packet so that the router or the hub can provide different services for various data packets. It can select the different queues according to the priority of the packets and select the bandwidth of the each queue. It can also discard at the different ratio when the broad bandwidth is jam.

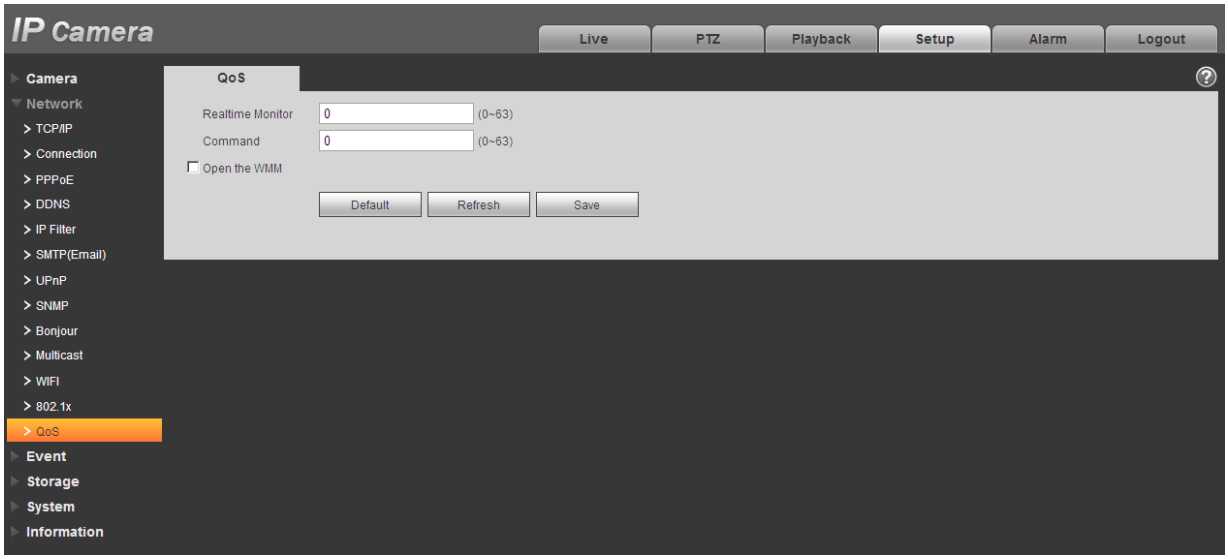


Figure 5-30

Please refer to the following sheet for detailed information.

Parameter	Function
Real-time monitor	The value ranges from 0 to 63. The router or the switcher can provide different service for various data packets.
Command	The value ranges from 0 to 63. The router or the switcher can provide different service for various data packets.
Enable wireless QoS	Check it to enable QoS.

5.2.16 3G

Note: This function is only for series with 3G module.

The 3G interface is shown as in Figure 5-31.

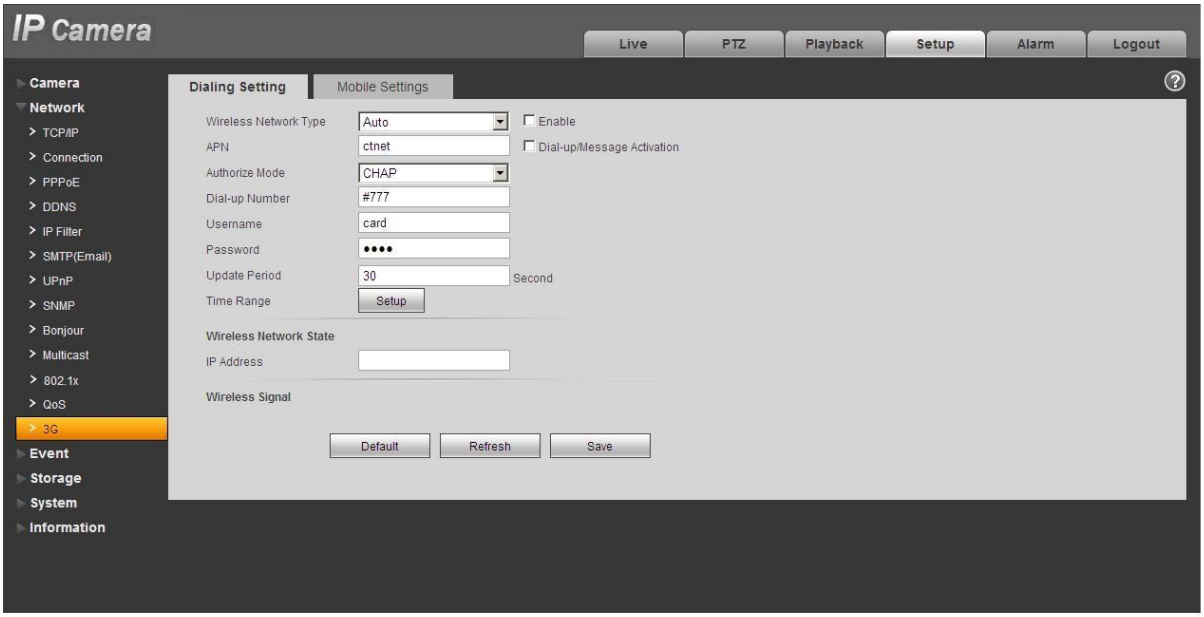


Figure 5-31

5.2.16.1 Dialing Setting

The dialing setting interface is shown as in Figure 5-32.

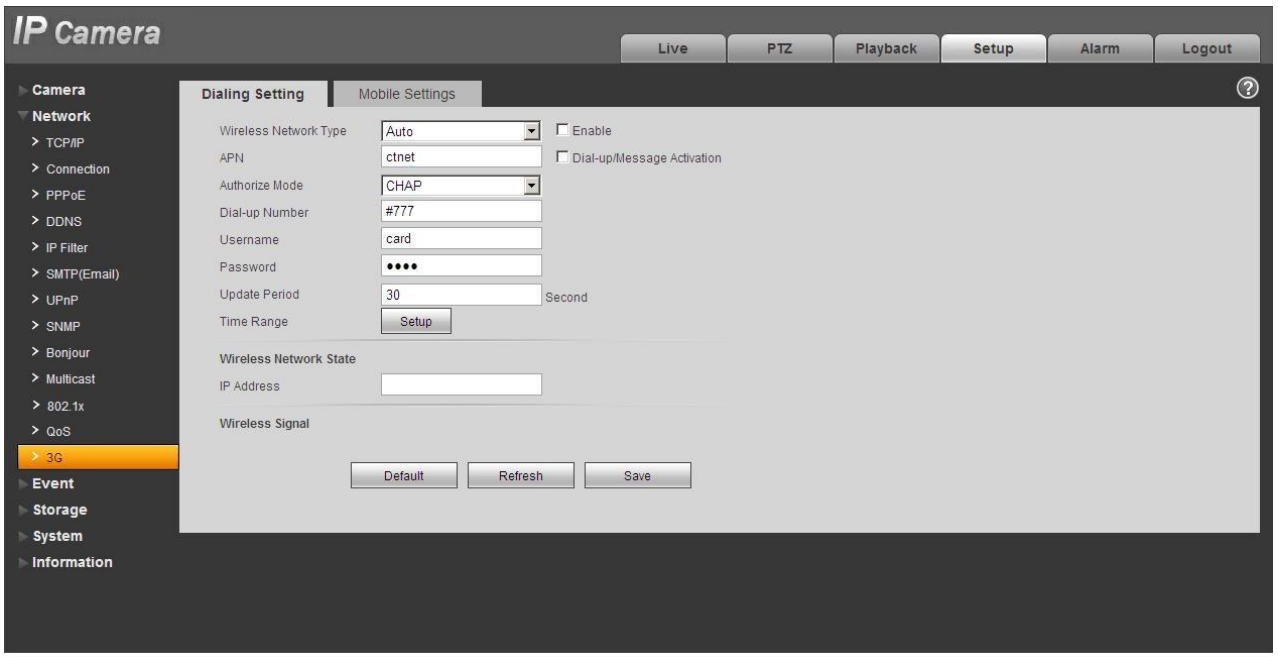


Figure 5-32

Please refer to the following sheet for detailed information.

Parameter	Function
Wireless connection type	The default is auto and it supports dial-up, sms and incoming call.
Enable	Check to enable 3G module.
Authentication	This function depends on your local 3G provider.
Dial-up	This function depends on your local 3G provider.
Username	This function depends on your local 3G provider.
Password	This function depends on your local 3G provider.
Auto period	It is period for device to receive 3G signal every 30s other than scheduled period. The default is 30s.
Interval	You can set dial-up interval. You also can dial if you enable dial-up/sms. The dial-up/sms and dial-up interval is related.
IP address	It displays received IP when 3G dial-up succeeds.

5.2.16.2 Mobile Phone

The mobile phone interface is shown as in Figure 5-33.

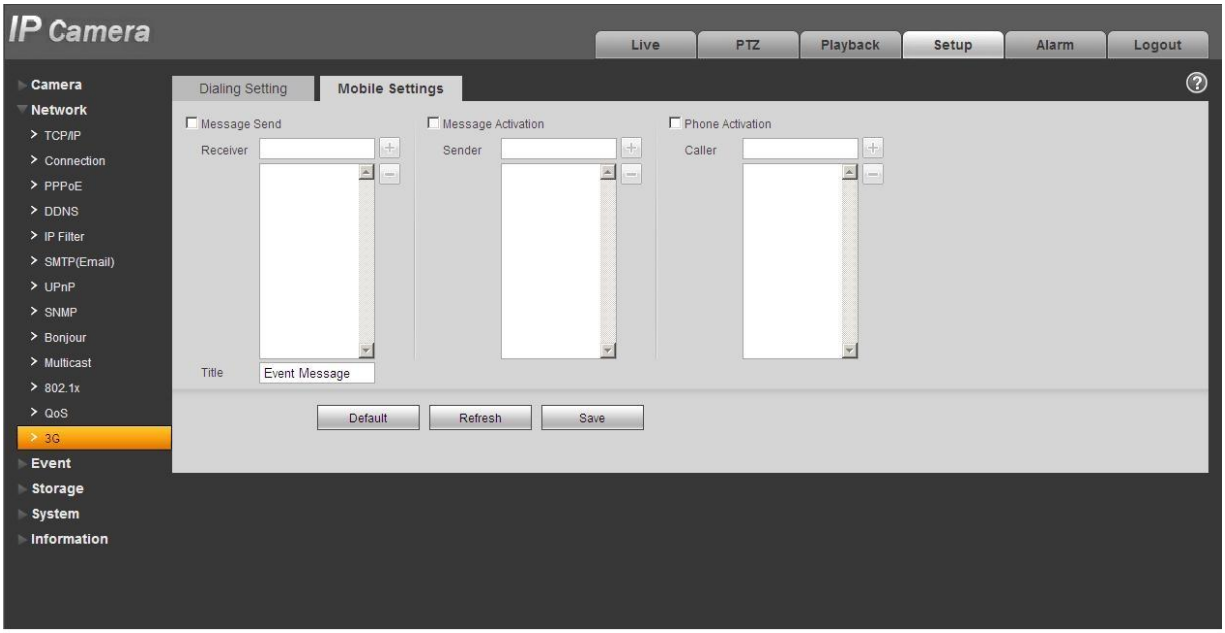


Figure 5-33

Please refer to the following sheet for detailed information.

Parameter	Function
SMS sending	In event management, check corresponding sms, so when there is event, a sms will be sent to mobile phone in corresponding receiving list. To use this function, you shall check sms enable in event management interface.
SMS enable	Mobile phone numbers in the list can enable/disable dial-up function and reboot device by sending sms to SIM card in the device.
Tel Activation	Mobile phone numbers in the list can call the SIM card in the device to enable/disable dial-up function.

5.3 Event

5.3.1 Video detect

5.3.1.1 Motion Detect

The motion detect interface is shown as in Figure 5-34.

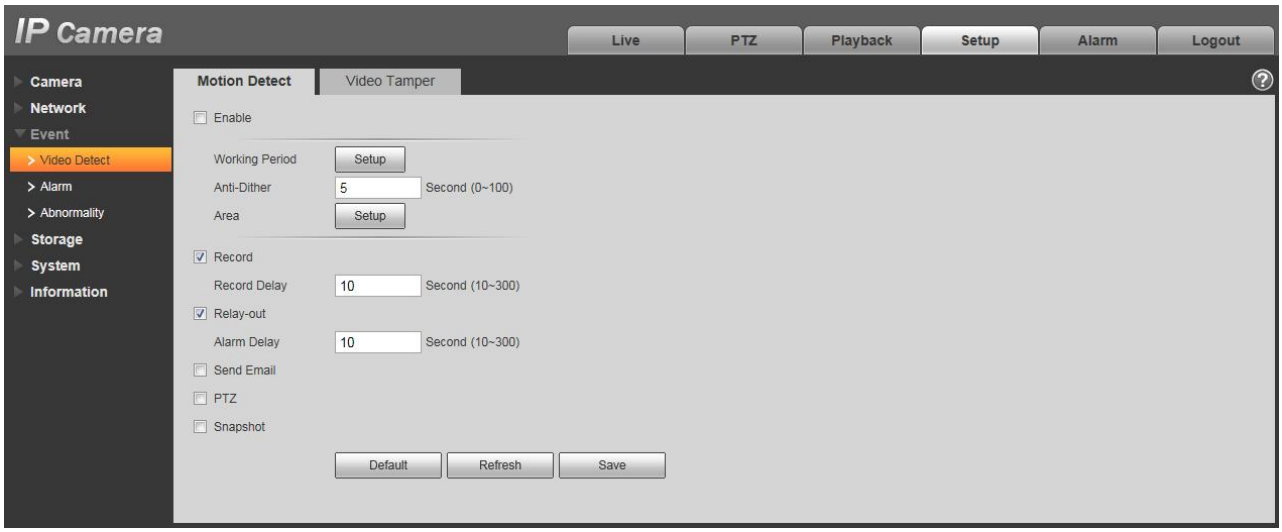


Figure 5-34

Please refer to the following sheet for detailed information.

Parameter	Function
Enable	You need to check the box to enable motion detection function.

Parameter	Function
Working Period	Here you can set arm/disarm period. Click on set button to open period setup menu. There are six periods every day for setup and you must check box in front of each period to enable it.
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 0s to 100s.
Area	Here you can set motion detection region and its sensitivity and area. (The higher the sensitivity is, the easier to trigger motion detect; the smaller the area, the easier to trigger motion detect.) The default covers all regions. You must click on save before enabling your setup.
Record	Check it and so when alarm occurs, system will auto record. You shall set record period in Storage>Schedule and select auto record in record control interface.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Relay out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs.
Alarm Delay	System can delay the alarm output for specified time after alarm ended. The value ranges from 10s to 300s.
Send Email	If you enabled this function, System can send out email to alert yo when alarm occurs and ends. User can set email address in Network>SMTP.
PTZ	● Here you can set PTZ movement when alarm occurs. Such as go to preset x when there is an alarm. ● The event type includes: preset, tour and pattern.
Snapshot	You need to check the box here so that system can backup motio detection snapshot file.

See Figure 5-35.

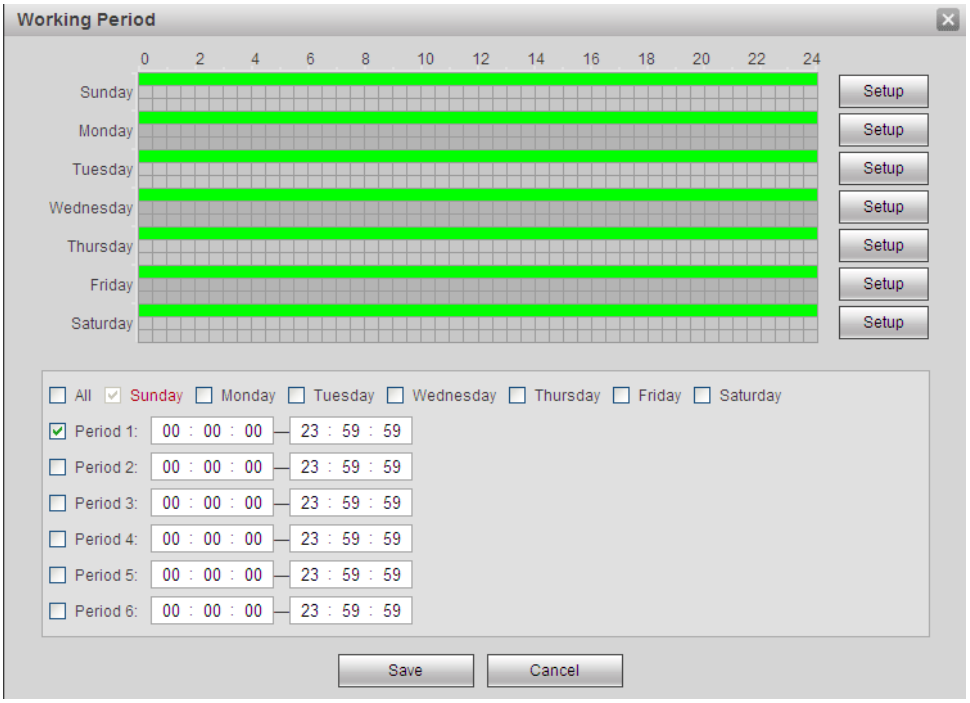

Working Period
0 2 4 6 8 10 12 14 16 18 20 22 24
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Setup
All Sunday Monday Tuesday Wednesday Thursday Friday Saturday
Period 1: 00 : 00 : 00 — 23 : 59 : 59
Period 2: 00 : 00 : 00 — 23 : 59 : 59
Period 3: 00 : 00 : 00 — 23 : 59 : 59
Period 4: 00 : 00 : 00 — 23 : 59 : 59
Period 5: 00 : 00 : 00 — 23 : 59 : 59
Period 6: 00 : 00 : 00 — 23 : 59 : 59
Save
Cancel

Figure 5-35

See Figure 5-36.

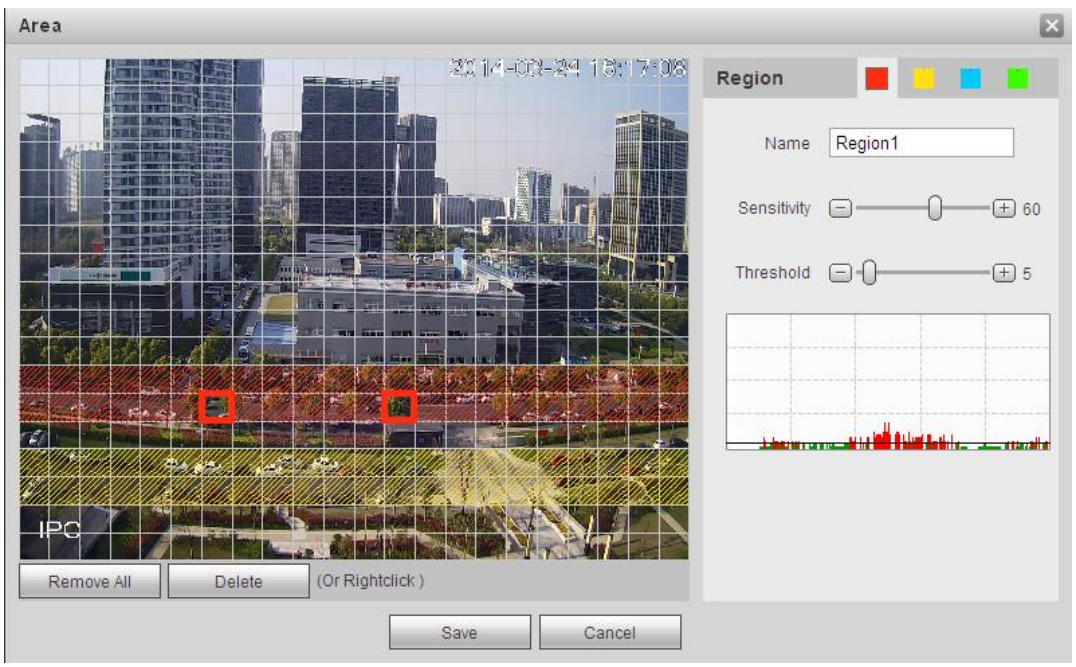


Figure 5-36

Please refer to the following sheet for detailed information.

Parameter	Function
Name	Default area name includes Region1, Region2, Region3, Region4 and custom.
Sensitivity	It is sensitivity of brightness as motion detection is more possible to be trigger with high sensitivity. You can set up to four areas. The range is 0~100. The recommenced value is 30~70.
Area threshold	It is to check target object area related to detection area. The lower the area threshold, the easier to trigger motion detection. You can set up to four areas. The range is 0~100. The recommenced value is 0~10.
Waveform	Red means motion detect is triggered. Green means motion detect is not triggered.
Delete all	Clear all areas.
Delete	Delete selected area.

5.3.1.2 Video Masking

The video masking interface is shown as in Figure 5-37.

Figure 5-37

Please refer to the following sheet for detailed information.

Parameter	Function
Enable	You need to check the box to enable this function.
Working period	You need to set arm and disarm time. Click on setup button to set.

Parameter	Function
Record	After record is enabled, video masking can activate video.
Record delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Relay out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs.
Alarm delay	System can delay the alarm output for specified time after alarm ended. The value ranges from 10s to 300s.
Send Email	If you enabled this function, System can send out email to alert you when alarm occurs.
Snapshot	After snapshot is enabled and alarm happens, the system will automatically snapshot and alarm.

5.3.2 Alarm

Please note some series products do not support this function.

5.3.2.1 PIR Alarm

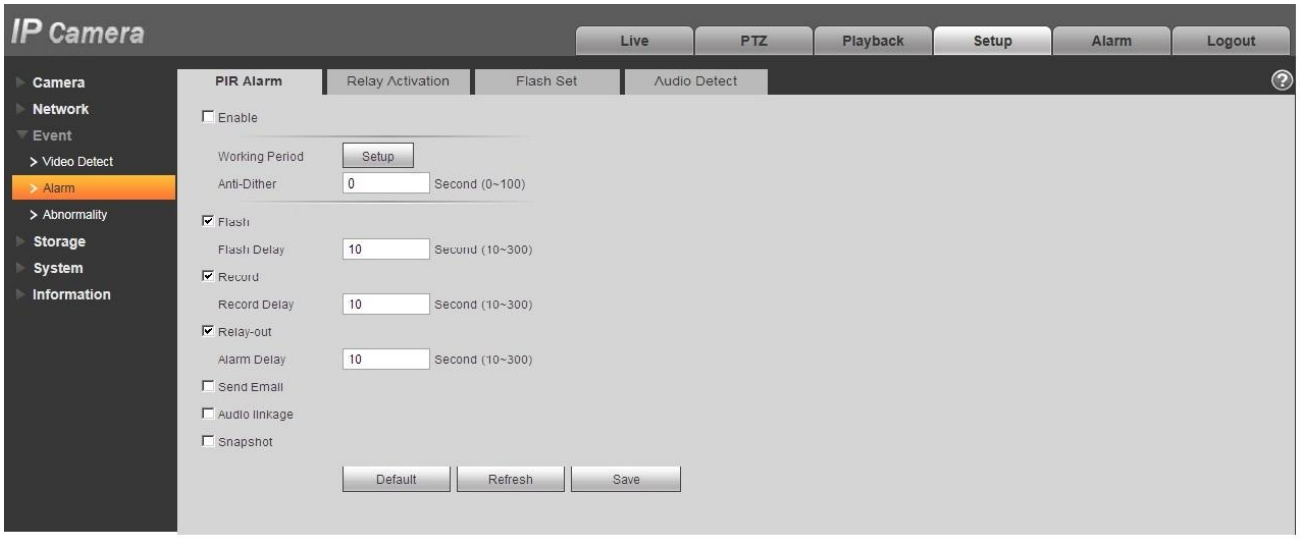


Figure 5-38

Parameter	Function
Enable	After enabled, PIR alarm will work.
Working Period	● This function becomes activated in the specified periods. ● There are six periods in one day. Please draw a circle to enable corresponding period. ● Select date. If you do not select, current setup applies to today only. You can select all week column to apply to the whole week. ● Click OK button, system goes back to motion detection interface; please click save button to exit. Note: The working period setup can be done by pressing the left mouse button and drag on the setting interface
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 0s to 100s.
Flash	After enabled, when alarm occurs, the system will turn on flash.
Flash delay	● Means flash become off after a period of time when relay activation ends. ● Unit is in second, within 10s ~ 300s.
Record	System auto activates motion detection channel to record once alarm occurs (working with motion detection function). Please note you need to go to Storage-> Schedule to set current channel as general record.
Record delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Relay out	• Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs.
Alarm Delay	System can delay the alarm output for specified time after alarm ended. The value ranges from 10s to 300s.
Send Email	After this function is enabled, system can send out email to alert users when alarm occurs. Users can set his own Email address in “network setting ＞ SMTP（Email）”
Audio linkage	After this function is enabled, system can play alarm audio file to alert users when alarm occurs. Users can set his own recorded audio file in “camera setting ＞ audio ＞ alarm audio”
Snapshot	After you enabled snapshot, the system will automatically snapshot if alarm occurs. Meanwhile you have to set alarm snapshot period in “storage management> time table”

5.3.2.2 Relay activation

The alarm activation interface is shown as in Figure 5-39.

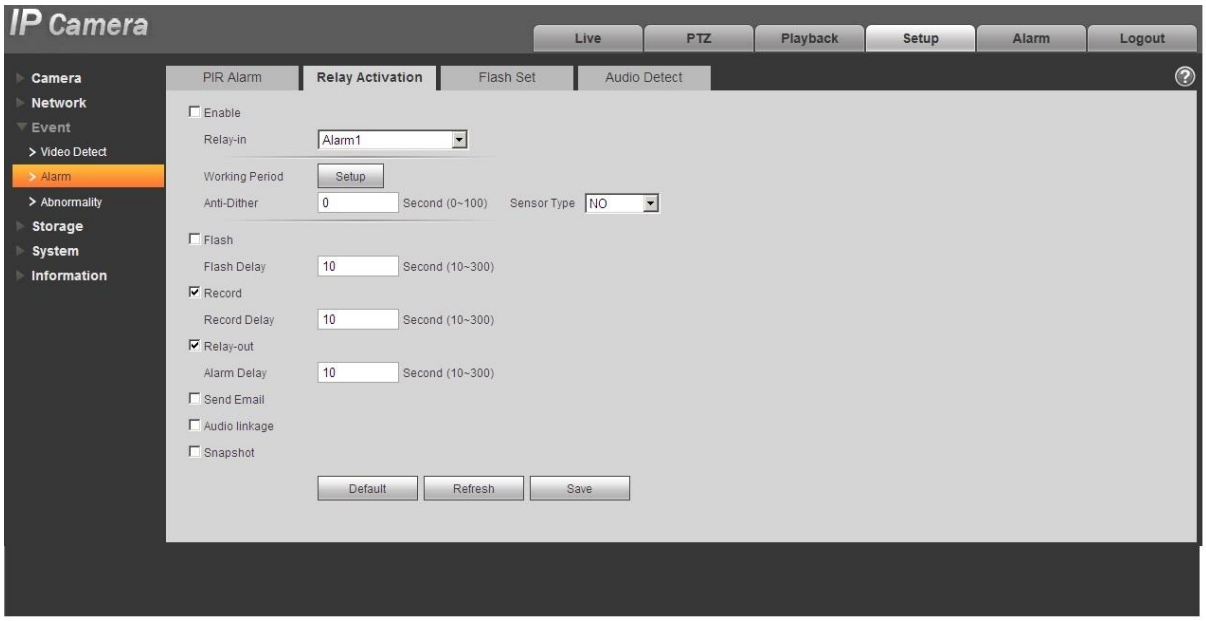


Figure 5-39

Parameter	Function
Enable	After enabled, relay activation will work.
Alarm input	Default alarm 1, some products can select alarm 2.
Sensor type	There are two options: NO/NC. From NO to NC, system enables alarm. From NC to NO, system disables alarm.

5.3.2.3 Flash set

The flash set interface is shown as in Figure 5-40.

Figure 5-40

Please refer to the following sheet for detailed information.

Parameter	Function
ON/OFF	ON means flash is on; OFF means flash is off.
Weak-strong bar	Via dragging this bar to adjust flash brightness.
All	Check the day flash works.
Period	Period that flash is on.

5.3.2.4 Audio Detect

Note:

Audio Detect will not work if the talk is on.

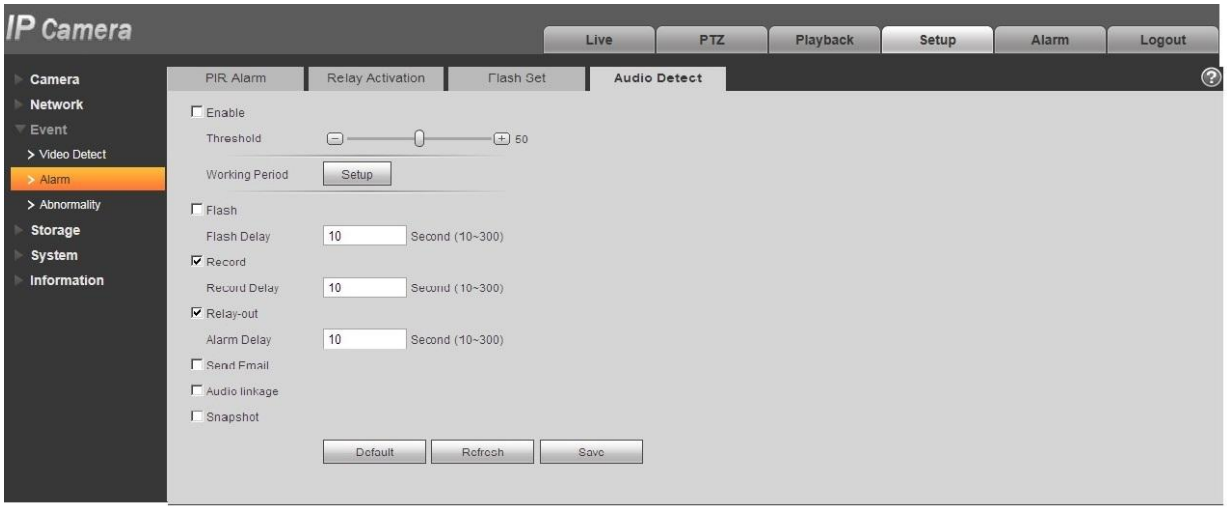


Figure 5-41

Parameter	Function
Enable	After enabled, audio detect will work.
Threshold	It will trigger alarm and set a series of linkages when the volume exceeds the set threshold.

5.3.3 Abnormity

Abnormity includes six alarm events which are: no SD card, SD card capacity warning, SD card error, network disconnected, IP conflict and illegal access.

Note:

Only device with SD card function has these three statuses: No SD card, capacity warning, and SD card error.

See Figure5-42 through Figure 5-44

Figure 5-42

Figure 5-43

Figure 5-44

Parameter	Function
Event Type	The abnormal events include: no SD card, no space, SD card error
Enable	After enabled, SD card abnormity alarm will work.
Relay out	After enabled, relay activation output port will work, link corresponding relay out device when alarm occurs.
Alarm Delay	The alarm output can delay for the specified time after alarm stops. The value ranges from 10s to 300s. Note: Alarm delay starts from the beginning of alarm, no SD card, no space and SD card error.
Send Email	After enable, the system will send Email to inform users when alarm occurs, users can set his own Email address in “network setting> SMTP(Email)”
SD card space capacity limit	Set the percentage of SD card remaining space, alarm will work when SD card remaining space is less than the percentage.

Network abnormity alarm event will occur when network disconnects or IP conflicts, operation is similar to SD card abnormity.

Figure 5-45

Illegal access alarm event will occur when login password error reaches a certain number of times. Operation is similar to SD card abnormity. Allow a certain number of times for login error; after login wrong password for the times, then it will trigger illegal access alarm event, and the account is locked.

Figure 5-46

5.4 Storage

5.4.1 Record Schedule and Snapshot Schedule

In these two interfaces, you can add or remove the schedule record/snapshot setup. See Figure 5-47 and Figure 5-48.

There are three record modes: general (auto), motion detect and alarm. There are six periods in one day. Please make sure you have enabled the corresponding record mode in the Setup->Storage->Conditions.

You can view the current time period setup from the color bar.

- Green color stands for the general record/snapshot.
- Yellow color stands for the motion detect record/snapshot..
- Red color stands for the alarm record/snapshot.

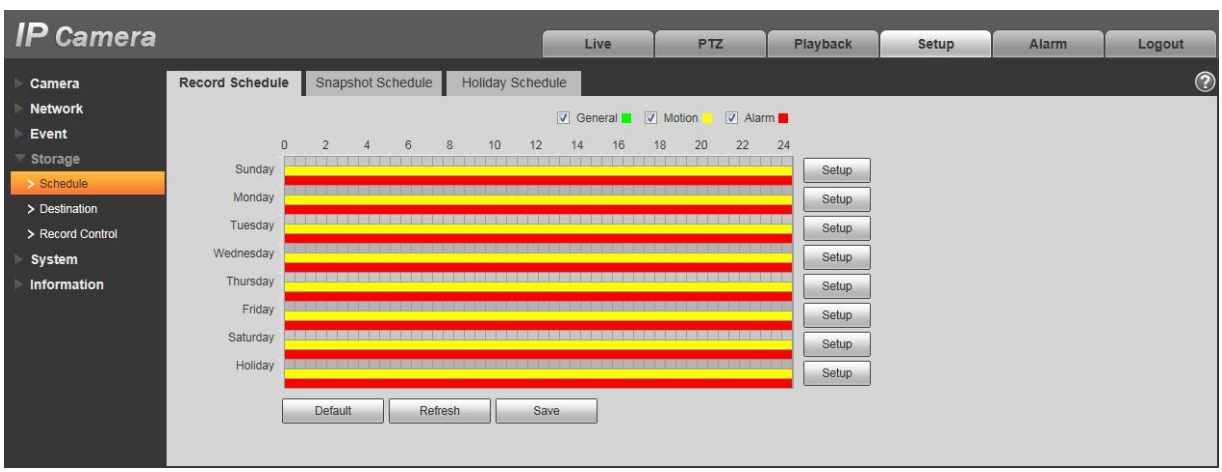


Figure 5-47

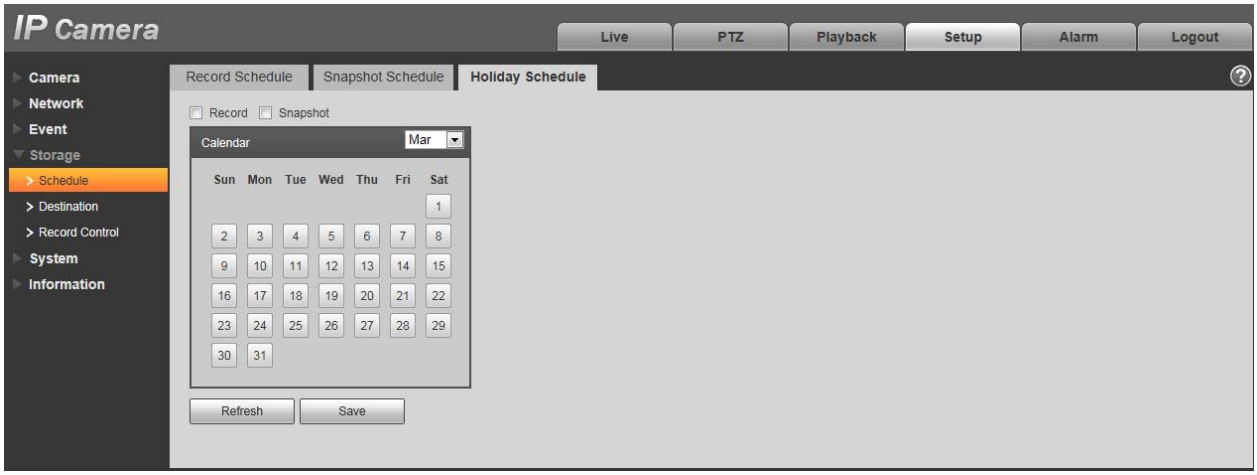


Figure 5-48

You can set specified dates as holiday. When snapshot of holiday is enabled, the selected dates will be snapshot/recorded according to holiday setup.

5.4.2 Destination

The destination interface is shown as in Figure 5-49.

It is to set the storage mode of the network camera record file or snapshot pictures. There are three options: local/FTP/NAS. System can save according to the event types. It is corresponding to the three modes (general/motion/alarm)in the Schedule interface. Please check the box to store corresponding video or snapshot.

Note:

Only device supports SD card has local, the destination of device which doesn't support SD card doesn't display local.

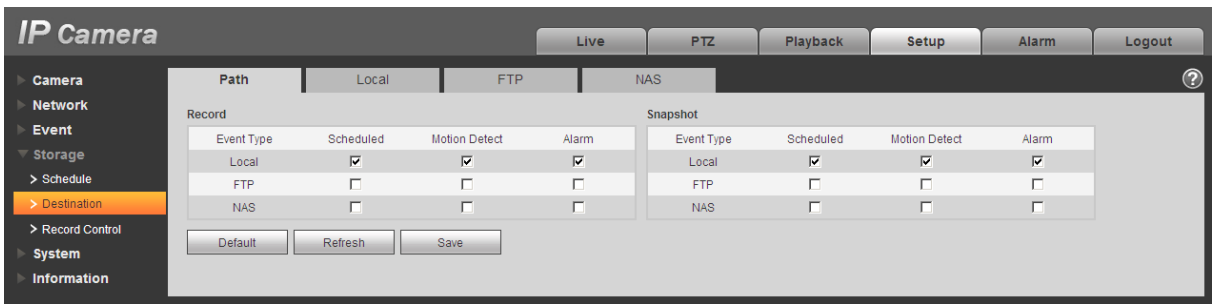


Figure 5-49

Parameter	Function
Event Type	It includes: general, motion detect and alarm.
Local	It saved in the SD card.
FTP	It saved in the FTP server.
NAS	It saved in the NAS disk.

5.4.3 Local

The local interface is shown as in Figure 5-50. Here you can view local SD card or NAS information. You can also operate the read-only, write-only, hot swap and format operation.

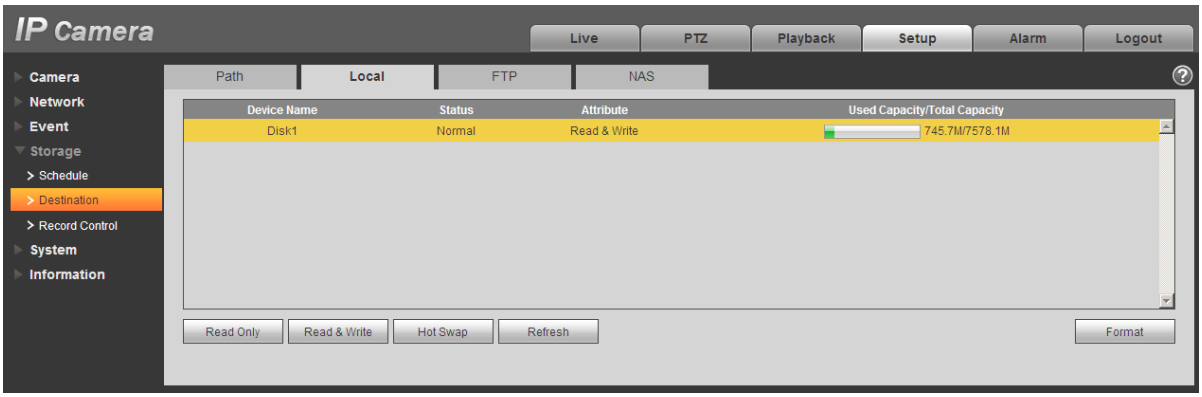


Figure 5-50

5.4.4 FTP

The FTP interface is shown as in Figure 5-51. You need to check the box to enable the FTP function. When network disconnect occurred or there is malfunction. Emergency storage can save the record/snapshot picture to the local SD card.

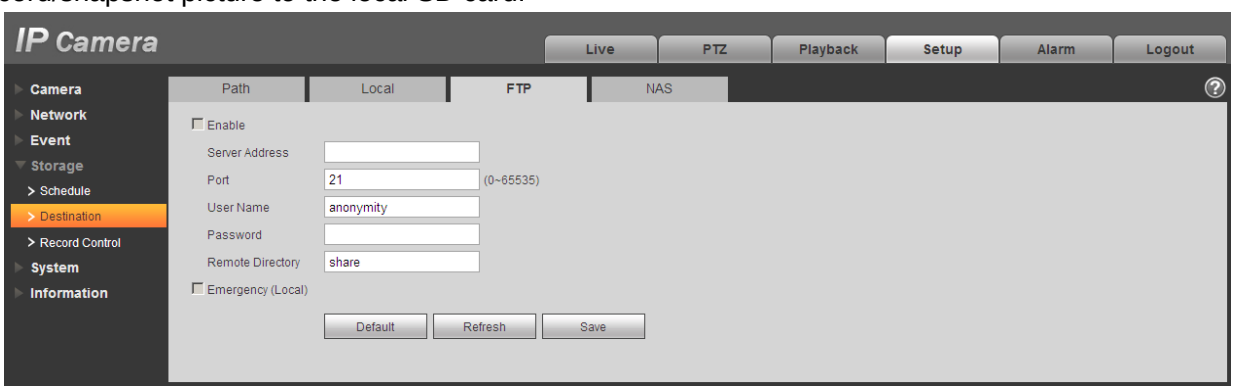


Figure 5-51

5.4.5 NAS

NAS enabled when destination selects NAS storage mode. When selecting NAS storage, fill in the server address and corresponding storage path, and then you can store the video file or image information in the NAS server.

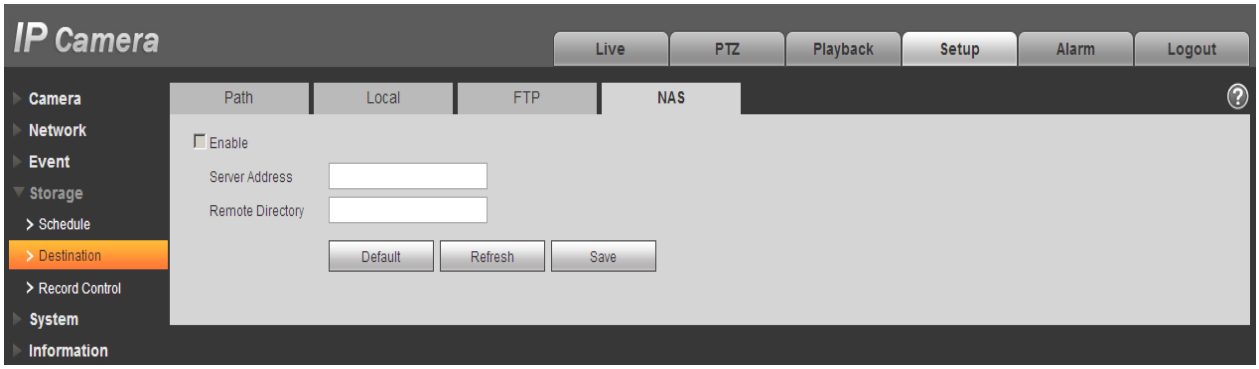


Figure 5-52

Parameter	Function
Server address	Set NAS server IP address.
Remote directory	Set storage directory, enable to store video or pictures in the corresponding server directory.

5.4.6 Record control

The record control interface is shown as in Figure 5-53.

Figure 5-53

Please refer to the following sheet for detailed information.

Parameter	Function
Pack Duration	Here you can select file size. Default setup is 8 minutes.
Pre-record	Please input pre-record value here. For example, system can record the four seconds video in the buffer. The record begins from the fifth second.
Disk Full	There are two options: stop recording or overwrite the previous files when HDD is full. ● Stop: Current working HDD is overwriting or current HDD is full, it will stop record. ● Overwrite: Current working HDD is full; it will overwrite the previous file.
Record mode	There are three modes: Auto/manual/close.
Record stream	There are two options: main stream and sub stream.

5.5 System

5.5.1 General

The general interface includes the local host setup and the date/time setup.

5.5.1.1 Local host

The local host interface is shown as in Figure 5-54.

Figure 5-54

Please refer to the following sheet for detailed information.

Parameter	Function
Device No	It is to set device name.
Video Standard	This is to display video standard such as PAL.
Language	You can select the language from the dropdown list.

5.5.1.2 Date and time

The date and time interface is shown as in Figure 5-55.

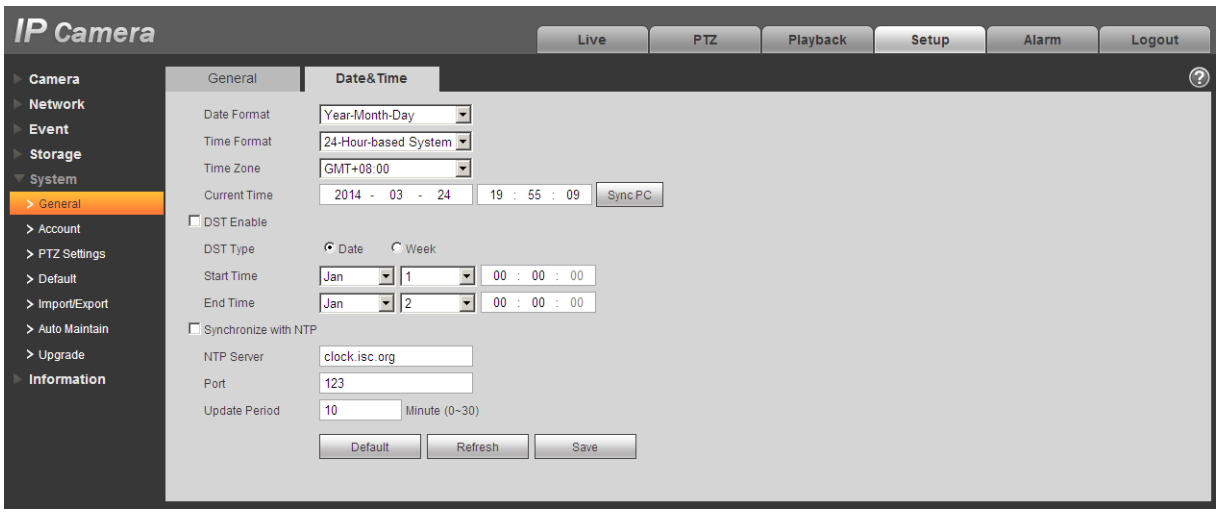


Figure 5-55

Please refer to the following sheet for detailed information.

Parameter	Function
Date format	Here you can select date format from the dropdown list.
Time Format	There are two options: 24-H and 12-H.
Time zone	The time zone of the device.
System time	It is to set system time. It becomes valid after you set.
Sync PC	You can click this button to save the system time as your PC current time.

DST	Here you can set day night save time begin time and end time. You can set according to the date format or according to the week format.
NTP	You can check the box to enable NTP function.
NTP server	You can set the time server address.
Port	It is to set the time server port.
Update period	It is to set the sync periods between the device and the time server.

5.5.2 Account

Note:

- For the character in the following user name or the user group name, system max supports 15-digits. The valid string includes: character, number, and underline.
- The user amount is 18 and the group amount is 8 when the device is shipped out of the factory. The factory default setup includes two levels: user and admin. You can set the corresponding group and then set the rights for the respective user in the specified groups.
- User management adopts group/user modes. The user name and the group name shall be unique. One user shall be included in only one group.

5.5.2.1 User name

In this interface you can enable anonymity login, add/remove user and modify user name. See Figure 5-56.

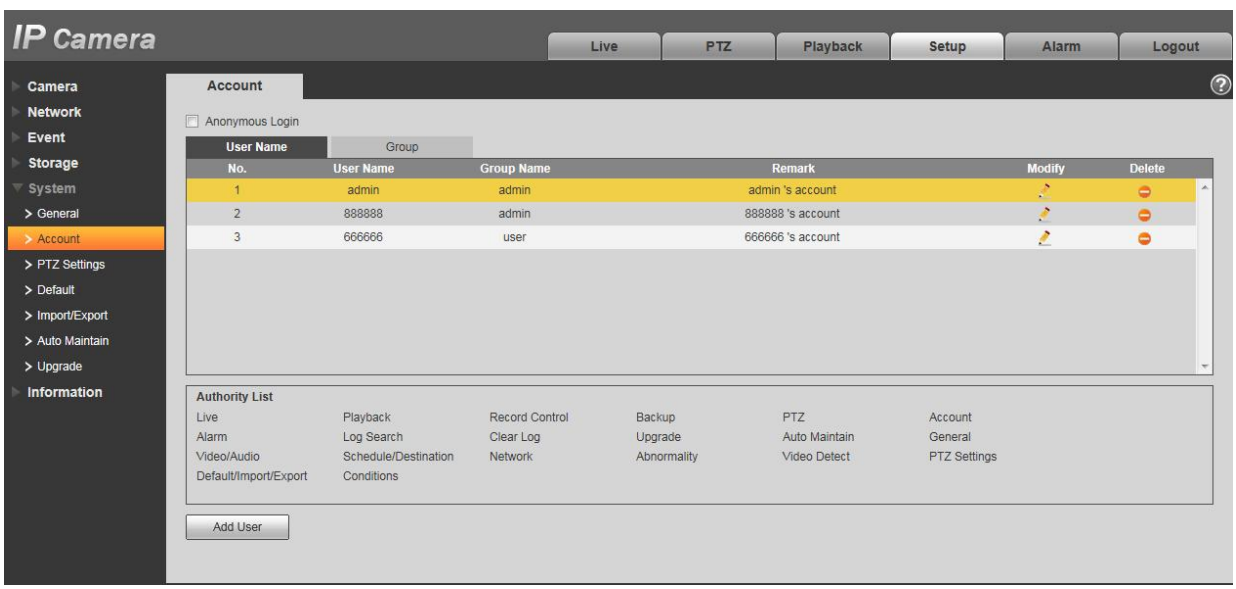


Figure 5-56

Enable anonymity login: Enable anonymity login, and input IP. No username or password is required, you can log in by anonymity (with limited rights). You can click logout to end your session.

Add user: It is to add a name to group and set the user rights. See Figure 5-57.

There are four default users: admin/888888/666666 and hidden user “default”. Except user 6666, other users have administrator right. The user 666666 can only have the monitor rights,.

Hidden user “default” is for system interior use only and cannot be deleted. When there is no login user, hidden user “default” automatically login. You can set some rights such as monitor for this user so that you can view some channel view without login.

Here you can input the user name and password and then select one group for current user.

Please note the user rights shall not exceed the group right setup.

For convenient setup, please make sure the general user has the lower rights setup than the admin.

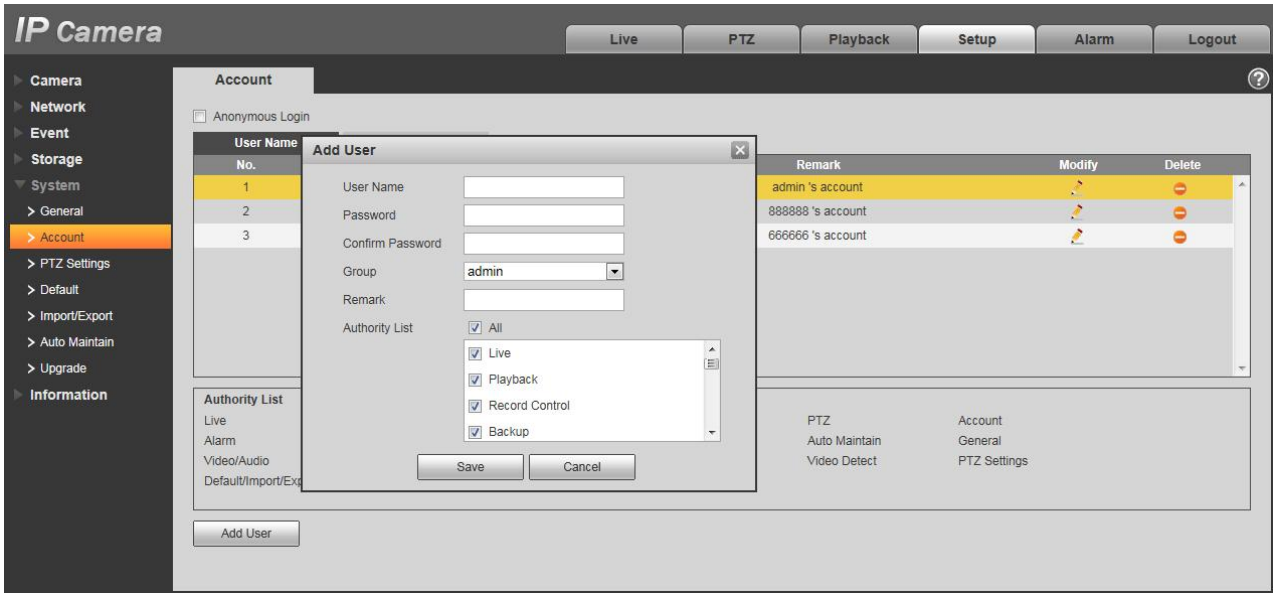


Figure 5-57

Modify user

It is to modify the user property, belonging group, password and rights. See Figure 5-58.

Modify password

It is to modify the user password. You need to input the old password and then input the new password twice to confirm the new setup. Please click the OK button to save.

Please note, the password ranges from 0-digit to 32-digit. It shall include the number and letter only. For the user who has the account rights, he can modify the password of other users.

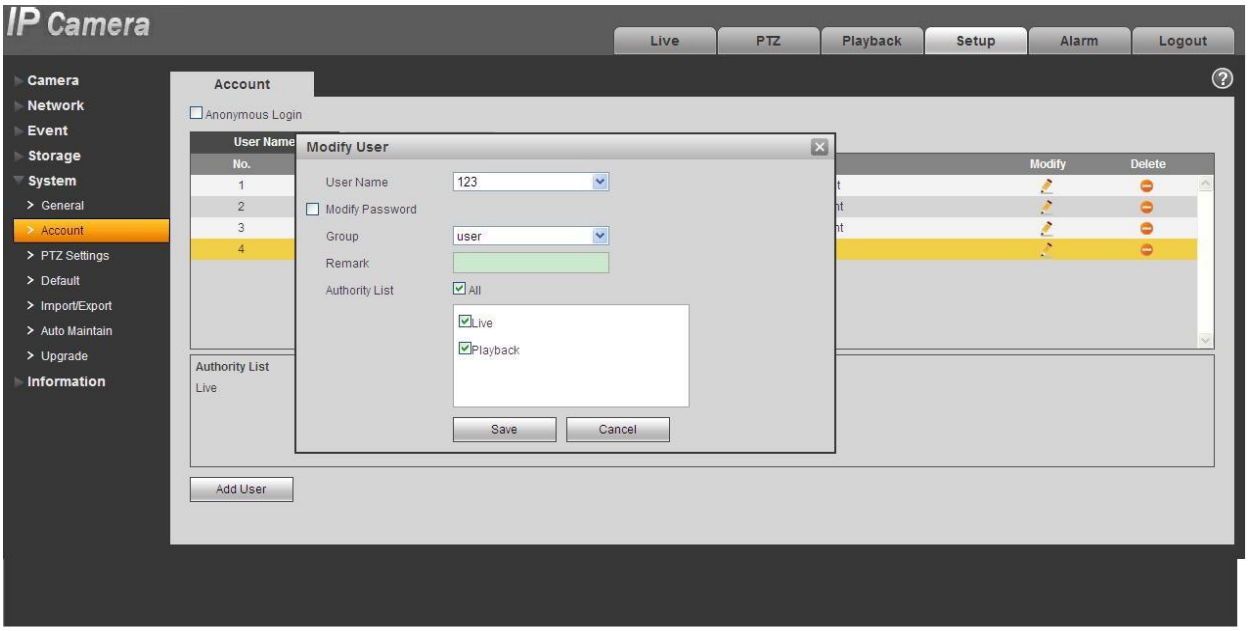


Figure 5-58

5.5.2.2 Group

The group management interface can add/remove group, modify group password and etc.

The interface is shown as in Figure 5-59.

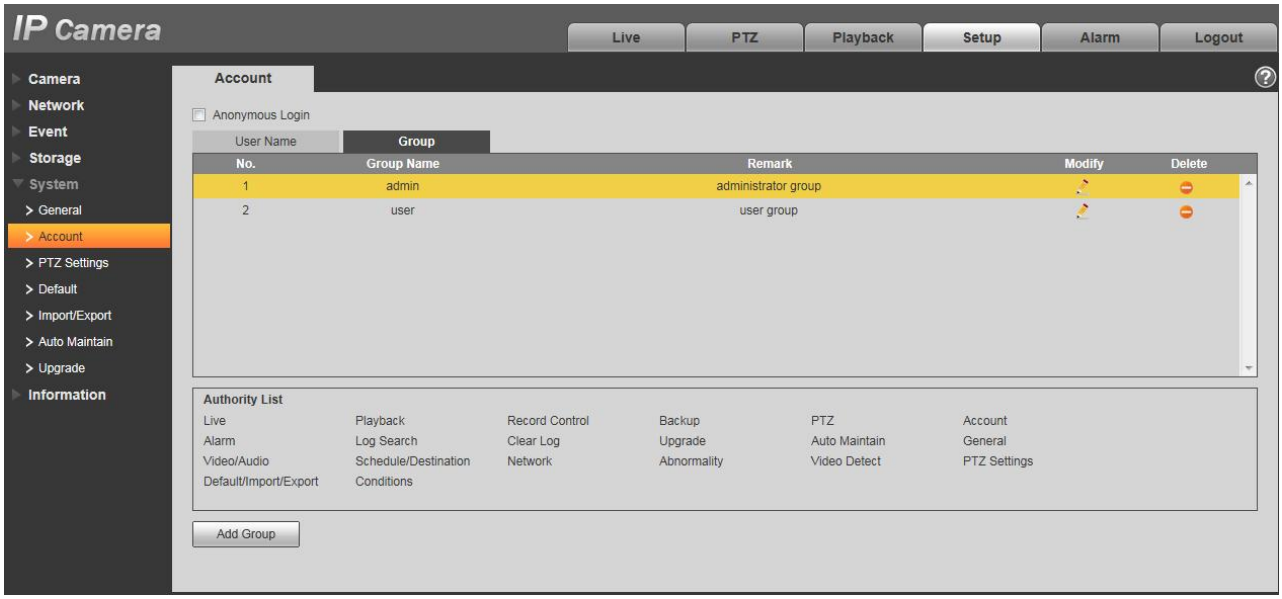


Figure 5-59

Add group: It is to add group and set its corresponding rights. See Figure 5-60.
Please input the group name and then check the box to select the corresponding rights. It includes: preview, playback, record control, PTZ control and etc.

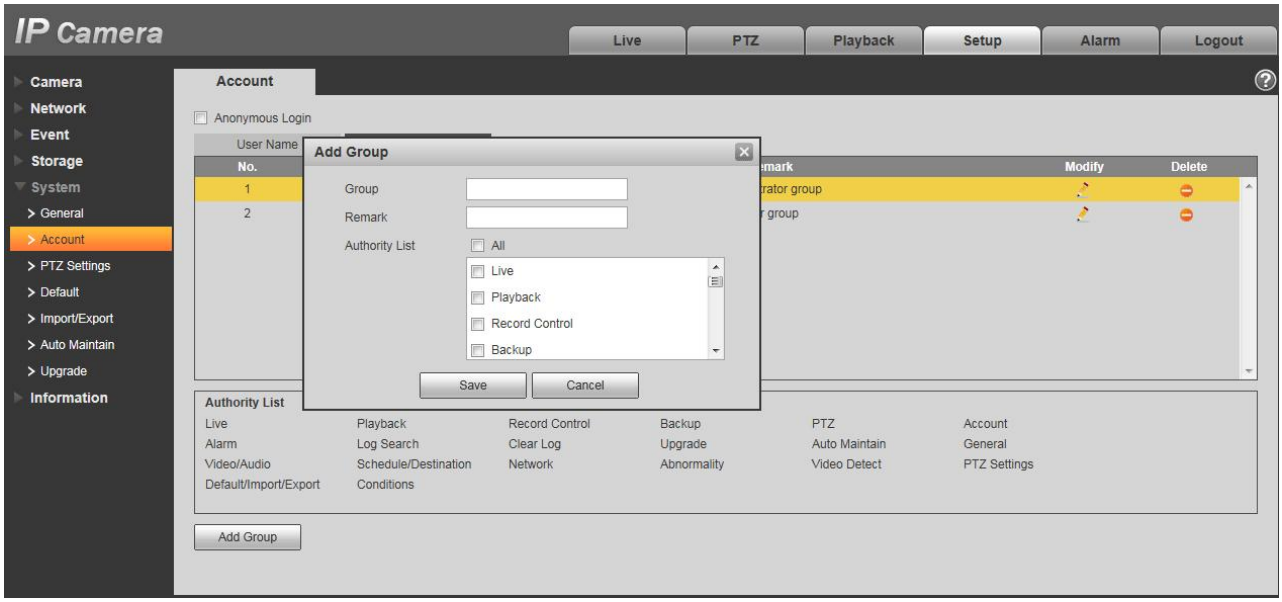


Figure 5-60

Modify group

Click the modify group button, you can see an interface is shown as in Figure 5-61.
Here you can modify group information such as remarks and rights.

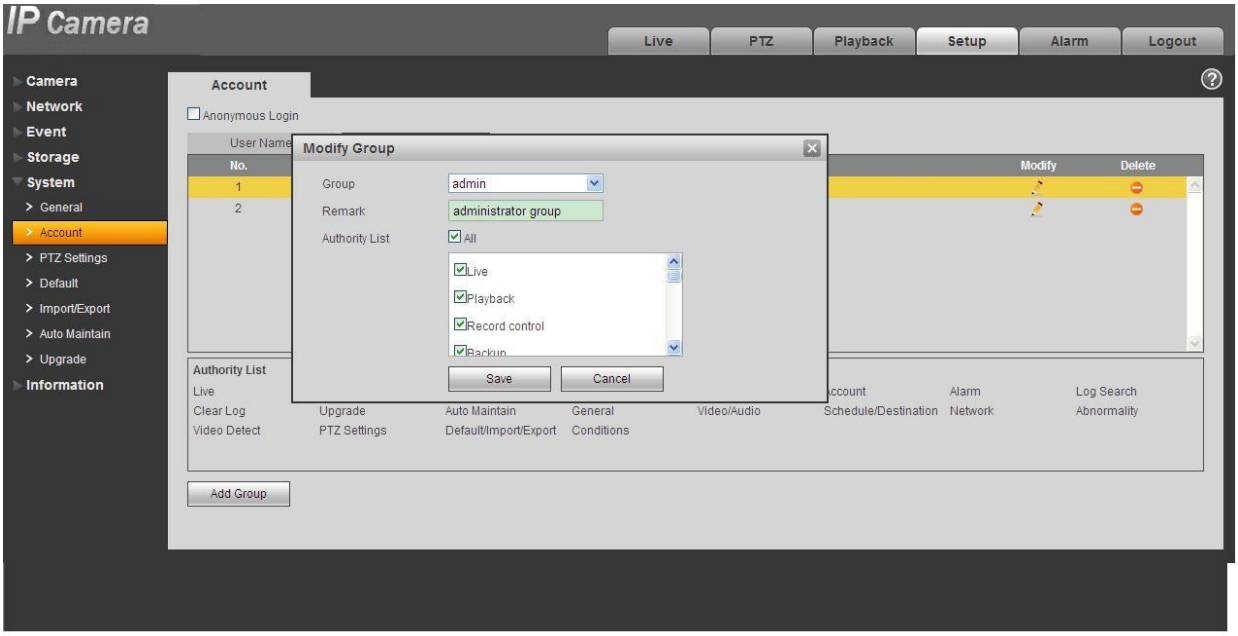


Figure 5-61

5.5.3 PTZ

Please note only some series products support this function.

The PTZ interface is shown as in Figure 5-62.

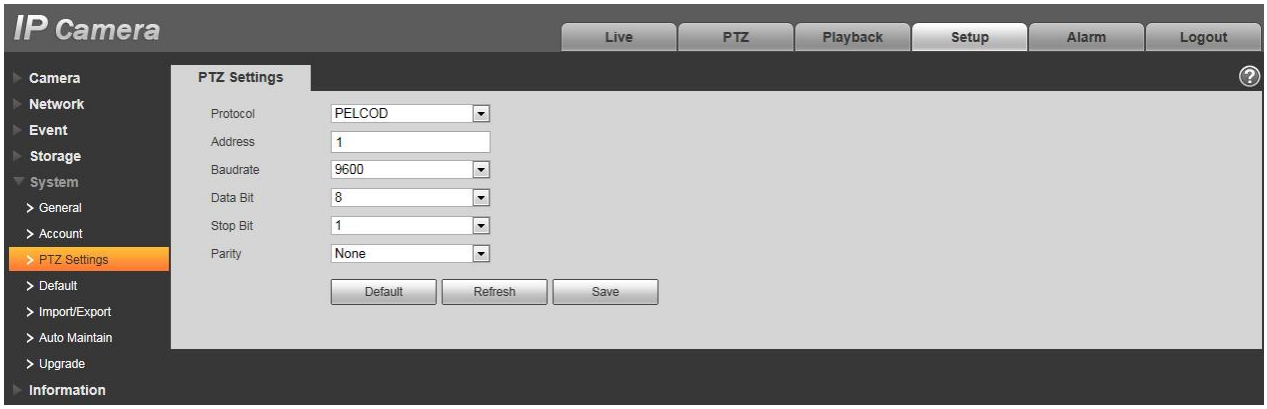


Figure 5-62

Please refer to the following sheet for detailed information.

Parameter	Function
Protocol	Select the corresponding dome protocol.

Parameter	Function
Address	Set corresponding dome address. Default value is 1. Please note your setup here shall comply with your dome address; otherwise you can not control the speed dome.
Baud Rate	Select the dome baud rate. Default setup is 9600.
Data Bit	Default setup is 8. Please set according to the speed dome dial switch setup.
Stop bit	Default setup is 1. Please set according to the speed dome dial switch setup.
Parity	Default setup is none. Please set according to the speed dome dial switch setup.

5.5.4 Default

The default setup interface is shown as in Figure 5-63.

Please note system cannot restore some information such as network IP address.

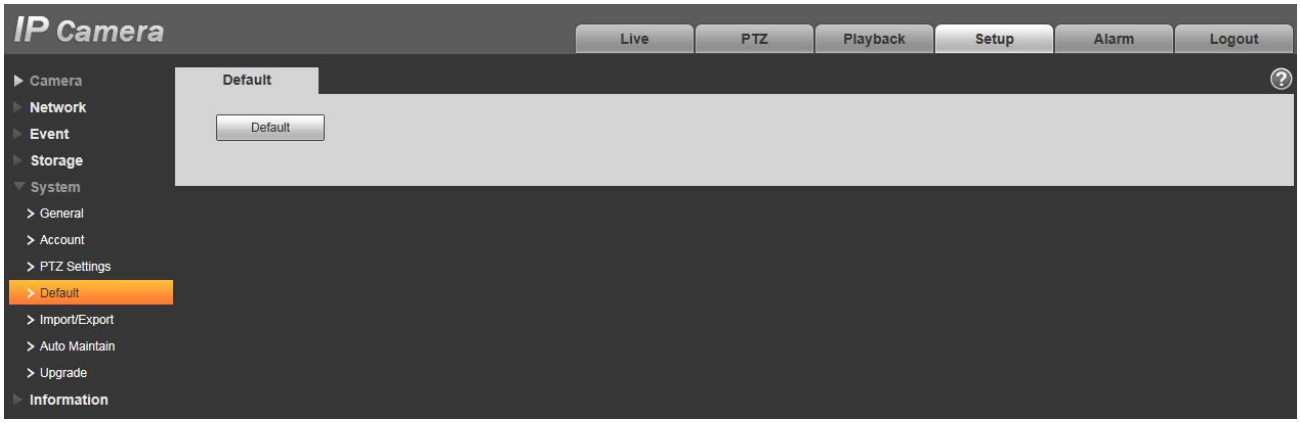


Figure 5-63

5.5.5 Import/Export

The interface is shown as in Figure 5-64.

Figure 5-64

Please refer to the following sheet for detailed information.

Parameter	Function
Import	It is to import the local setup files to the system.
Export	It is to export the corresponding system setup to your local PC.

5.5.6 Auto Maintenance

The auto maintenance interface is shown as in Figure 5-65.

Here you can select auto reboot and auto delete old files interval from the dropdown list.

If you want to use the auto delete old files function, you need to set the file period.

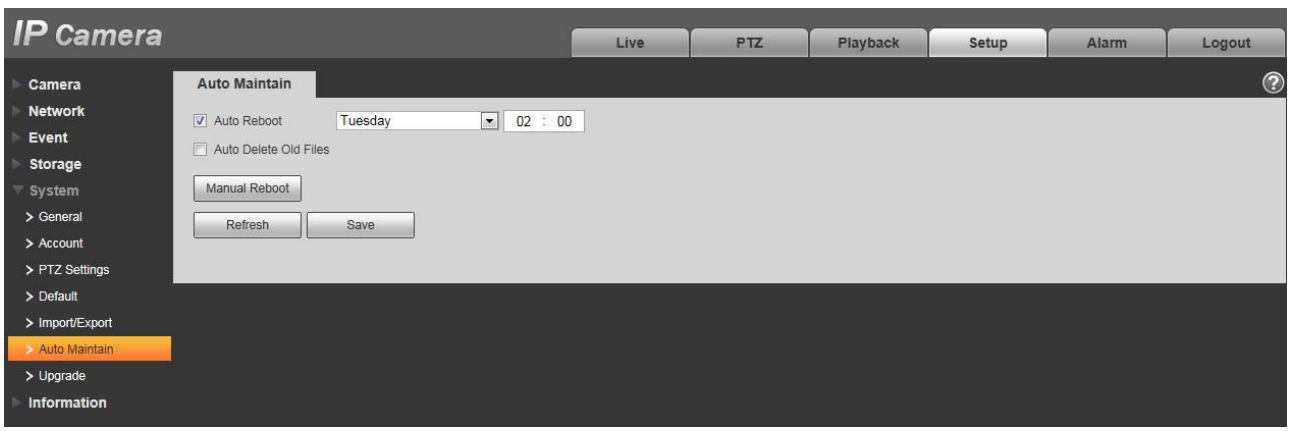


Figure 5-65

5.5.7 Upgrade

The upgrade interface is shown as in Figure 5-66.

Please select the upgrade file and then click the update button to begin firmware update.

Important

Improper upgrade program may result in device malfunction!

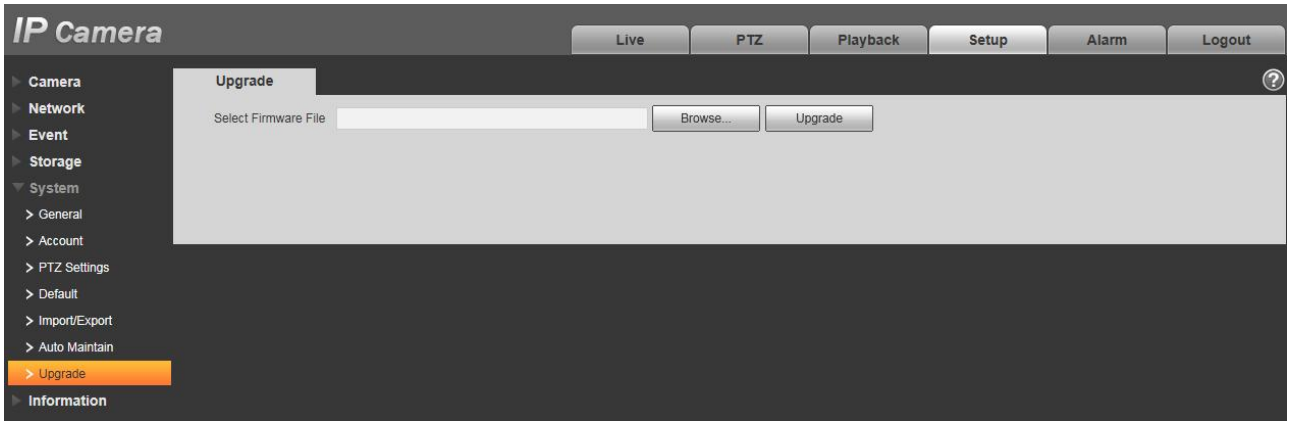


Figure 5-66

5.6 Information

5.6.1 Version

The version interface is shown as in Figure 5-67.

Here you can view device type, system hardware features, software version, release date and etc.

Please note the following information is for reference only.

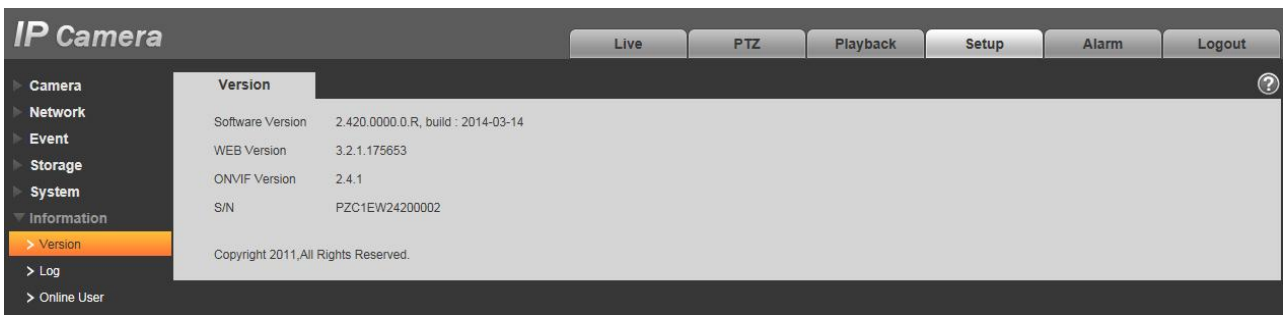


Figure 5-67

5.6.2 Log

Here you can view system log. See Figure 5-68.

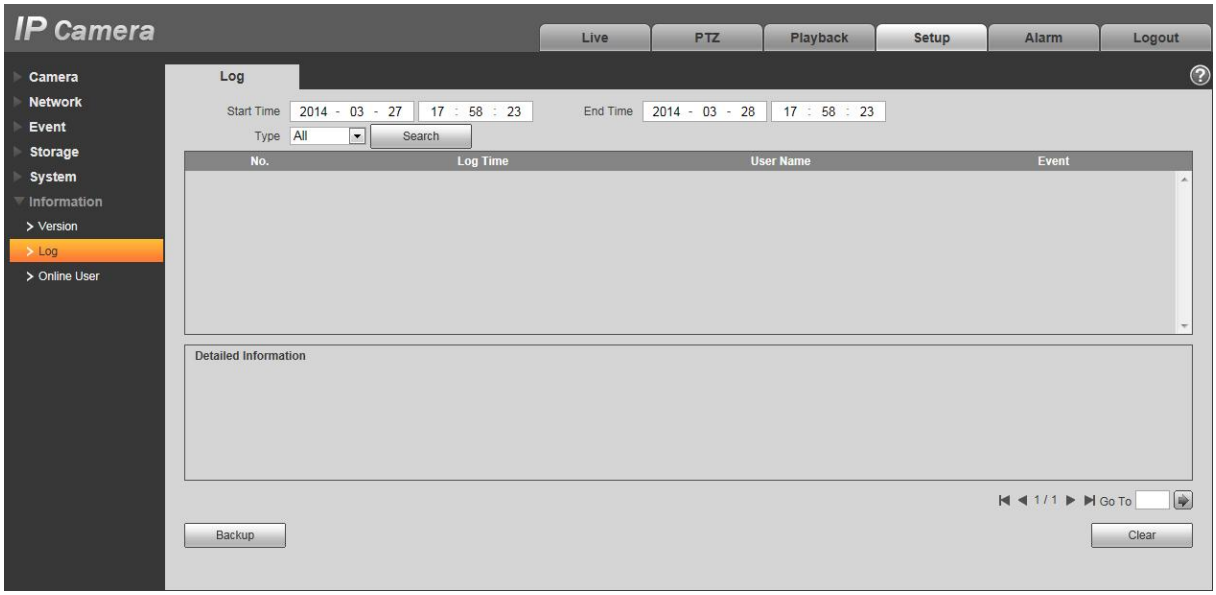


Figure 5-68

Please refer to the following sheet for log parameter information.

Parameter	Function
Type	Log types include: system operation, configuration operation, data operation, event operation, record operation, user management, log clear.
Start time	Set the start time of the requested log.
End time	Set the end time of the requested log.
Search	You can select log type from the drop down list and then click search button to view the list. You can click the stop button to terminate current search operation.
Log information	You can select one item to view the detailed information.
Clear	You can click this button to delete all displayed log files. Please note system does not support clear by type.
Backup	You can click this button to backup log files to current PC.

5.6.3 Online User

The online user interface is shown as in Figure 5-69.

Here you can view current online user, group name, IP address and login time.

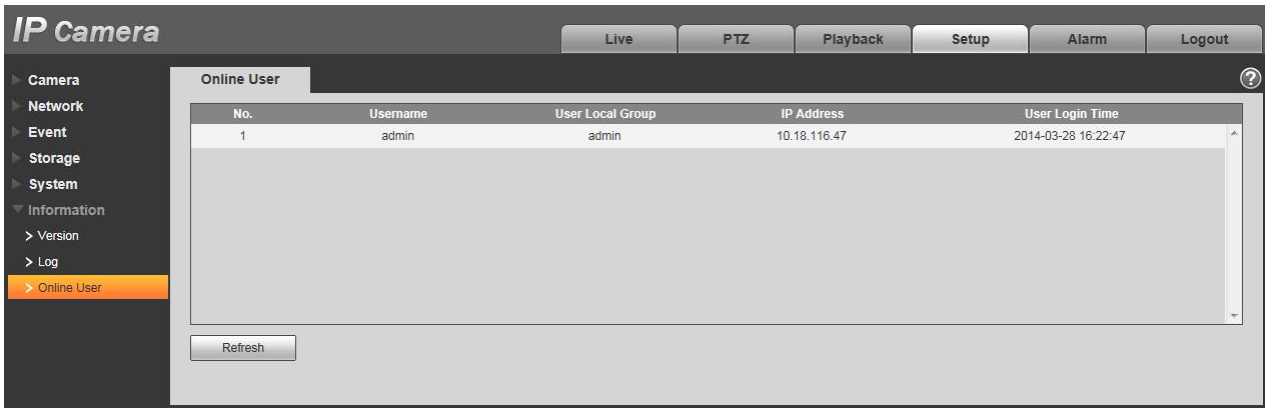

IP Camera
Live
PTZ
Playback
Setup
Alarm
Logout
Camera
Network
Event
Storage
System
Information
Version
Log
Online User
Online User
No.
Username
User Local Group
IP Address
User Login Time
1
admin
admin
10.18.116.47
2014-03-28 16:22:47
Refresh

Figure 5-69

6 Alarm

Please note some series product does not support this function.

Click alarm function, you can see an interface is shown as in Figure 6-1.

Here you can set device alarm type and alarm sound setup.

Figure 6-1

Please refer to the following sheet for detailed information.

Type	Parameter	Function
Alarm type	Motion detection	System alarms when motion detection alarm occurs,
	Disk full	System alarms when disk is full.
	HDD malfunction	System generates an alarm when HDD is malfunction.
	Camera masking	System alarms when camera is viciously masking.
	External alarm	Alarm input device sends out alarm.
Operation	Prompt	System automatically pops up alarm dialogue box.
Alarm audio	Audio	When alarm occurs, system auto generates alarm audio. The audio supports customized setup.
	Path	Here you can specify alarm sound file.

7 Log out

Click log out button, system goes back to log in interface. See Figure 7-1.

Figure 7-1

Note:

- **This manual is for reference only. Slight difference may be found in user interface.**
- **All the designs and software here are subject to change without prior written notice.**
- **All trademarks and registered trademarks mentioned are the properties of their respective owners.**
- **If there is any uncertainty or controversy, please refer to the final explanation of us.**
- **Please visit our website for more information.**